



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 163666**

**TO: John Ulm**  
**Location: rem/4E79/4C70**  
**Art Unit: 1649**

*Sept. 1*, 2005

**Case Serial Number: 10/719692**

**From: P. Sheppard**  
**Location: Remsen Building**  
**Phone: (571) 272-2529**

**sheppard@uspto.gov**

### **Search Notes**

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STIC-Biotech/ChemLib

163 666

Me

From: Ulm, John  
Sent: Wednesday, August 24, 2005 9:58 AM  
To: STIC-Biotech/ChemLib  
Subject: search SEQ ID NO:6 of application Serial Number 10/719,692

Please search SEQ ID NO:6 of application Serial Number 10/719,692.  
John Ulm. 571 272-0880, Room REM 4E79, mail box REM 4C70, results preferred in paper.

Thank you.

RECEIVED  
AUG 24 2005  
STIC

\*\*\*\*\*

STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2-\_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date Completed: \_\_\_\_\_  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*

Type of Search

NA#: \_\_\_\_\_ AA#: \_\_\_\_\_  
Interference: \_\_\_\_\_ SPDI: \_\_\_\_\_  
S/L: \_\_\_\_\_ Oligomer: \_\_\_\_\_  
Encode/Transl: \_\_\_\_\_  
Structure#: \_\_\_\_\_ Text: \_\_\_\_\_  
Inventor: \_\_\_\_\_ Litigation: \_\_\_\_\_

\*\*\*\*\*

Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIS: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 30, 2005, 18:20:50 ; Search time 166 Seconds  
(without alignments)  
806.139 Million cell updates/sec

Title: US-10-719-692-6  
Perfect score: 1853  
Sequence: 1 MTNGSCCRIGDTISQVMP.....ANSFOSQSGQWDPHIVWH 346

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A\_Geneseq\_16Dec04:\*

1: Geneseq1980s:\*

2: Geneseq1990s:\*

3: Geneseq2000s:\*

4: Geneseq2001s:\*

5: Geneseq2002s:\*

6: Geneseq2003as:\*

7: Geneseq2003bs:\*

8: Geneseq2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1853	100.0	346	4	AAG80968 Human nGP
2	1853	100.0	346	4	ABBA4522 Human GPC
3	1853	100.0	346	4	AAU06197 Novel hum
4	1853	100.0	346	4	AAU04373 Human G-p
5	1853	100.0	346	5	AAE16172 Human G-p
6	1853	100.0	346	5	AAU11401 HM74-like
7	1853	100.0	346	5	AAE17077 Human G-p
8	1853	100.0	346	5	ABBO8596 Human lip
9	1853	100.0	346	5	ABG93786 Human G-p
10	1853	100.0	346	5	ABP95599 Human GPC
11	1853	100.0	346	5	AAO14788 Human pur
12	1853	100.0	346	5	AEE24354 Human G p
13	1853	100.0	346	6	ABP81747 Human che
14	1853	100.0	346	6	ABP56751 Human GAV
15	1853	100.0	346	6	AAO26511 Human G-P
16	1853	100.0	346	6	ABP58453 Human res
17	1853	100.0	346	7	ADC46872 Human TA-
18	1853	100.0	346	7	ABW00810 Human GPC
19	1853	100.0	346	7	ADE40282 Human NOV
20	1853	100.0	346	7	ADE40272 Human NOV
21	1853	100.0	346	7	ADE40278 Human NOV
22	1853	100.0	346	7	ABW02123 Human GPC
23	1853	100.0	346	7	ADI21235 Novel hum
24	1853	100.0	346	7	ADL96470 Human G p
25	1853	100.0	346	8	ADJ71681 Human NOV

26	1853	100.0	346	8	ADJ71689	Adj71689 Human NOV
27	1853	100.0	346	8	ADJ71677	Adj71677 Human NOV
28	1853	100.0	346	8	ADM46116	Adm46116 Human 5-O
29	1853	100.0	346	8	ADO29444	Ado29444 Human GPC
30	1853	100.0	346	8	ADT08049	Adt08049 Human che
31	1853	100.0	352	7	ADF040286	Adf040286 Human NOV
32	1853	100.0	584	7	ADF70465	Adf70465 Orphan re
33	1849	99.8	346	6	ABB82502	ABb82502 Human TGR
34	1848	99.7	345	8	ADJ71693	Adj71693 Human NOV
35	1846	99.6	346	7	ADE40274	Ade40274 Human NOV
36	1846	99.6	346	8	ADJ71683	Adj71683 Human NOV
37	1839	99.2	346	4	ABB44523	Abb44523 Human GPC
38	1839	99.2	346	7	ADE40276	Ade40276 Human NOV
39	1839	99.2	346	7	ABW02124	ABw02124 Human GPC
40	1839	99.2	346	8	ADJ71685	Adj71685 Human NOV
41	1739	93.8	342	5	ABP54312	ABp54312 Human G p
42	1686	91.0	314	7	ADE40280	Ade40280 Human NOV
43	1686	91.0	314	8	ADJ71687	Adj71687 Human NOV
44	1686	91.0	320	7	ADE40288	Ade40288 Human NOV
45	1686	91.0	320	7	ADE40284	Ade40284 Human NOV

#### ALIGNMENTS

RESULT 1

AAG80968

ID AAG80968 standard; protein; 346 AA.

XX AAG80968;

XX DT 28-AUG-2001 (first entry)

XX DE Human nGPCr11 #2.

XX KW G protein-coupled receptor; nGPCR; seven transmembrane receptor;  
signal transduction; schizophrenia; thyroid disorder; renal failure;  
rheumatoid arthritis; CNS disorder; infection; metabolic disease;  
cardiovascular disease; proliferative disorder; hormonal disorder;  
neurological disorder; neuronal disorder; Alzheimer's disease; cancer;  
attention deficit-hyperactivity disorder/attention deficit disorder;  
Parkinson's disease; migraine; senile dementia; inflammatory disease;  
rheumatoid arthritis; autoimmune disorder; respiratory ailment;  
neuroprotective.

XX OS Homo sapiens.

XX PN WO200136473-A2.

XX PD 25-MAY-2001.

XX PF 16-NOV-2000; 2000WO-US031581.

XX PR 16-NOV-1999; 99US-0165838P.

XX PR 17-NOV-1999; 99US-0166071P.

XX PR 19-NOV-1999; 99US-0166678P.

XX PR 28-DEC-1999; 99US-0173396P.

XX PR 22-FEB-2000; 2000US-0184129P.

XX PR 28-FEB-2000; 2000US-0185421P.

XX PR 28-FEB-2000; 2000US-0185554P.

XX PR 02-MAR-2000; 2000US-0186530P.

XX PR 03-MAR-2000; 2000US-0186811P.

XX PR 09-MAR-2000; 2000US-0188114P.

XX PR 17-MAR-2000; 2000US-0190310P.

XX PR 21-MAR-2000; 2000US-0190800P.

XX PR 20-APR-2000; 2000US-0198568P.

XX PR 02-MAY-2000; 2000US-0201190P.

XX PR 08-MAY-2000; 2000US-0203111P.

XX PR 25-MAY-2000; 2000US-0207094P.

XX (PHAA ) PHARMACIA & UPJOHN CO.

PI Vogeli G, Wood IS, Parodi LA, Hiesbach RR, Lind P, Slightom J;

PI Schellin KA, Kaytes PS, Bannigan CM, Ruff V, Sejlitz T, Huff RM;  
XX WPI; 2001-389826/41.  
DR N-PSDB; AAH51008.  
XX  
XX New G protein-coupled receptor (GPCR-X) and its encoding polynucleotide  
PT useful for diagnosing and treating e.g. schizophrenia.  
XX  
XX Claim 37; Page 89; 261pp; English.  
XX  
XX The present invention relates to novel G protein-coupled receptors  
CC (GPCR-X; where x is 1, 3, 4, 5, 9, 11, 12, 14-18, 20, 21, 22, 24, 27, 28,  
CC 31-38, 40, 41, 53-60) and their coding sequences. The present sequence is  
CC one such G protein-coupled receptor. GPCRs are also known as seven  
CC transmembrane receptors and function in signal transduction. The GPCR-X  
CC coding sequences are useful for screening a human to diagnose a disorder  
CC affecting the brain or a genetic predisposition, specifically  
CC schizophrenia. GPCR-X are useful for identifying compounds useful for  
CC treating schizophrenia. Detection of GPCR-X in a sample is useful as a  
CC diagnostic tool for diseases or disorders e.g. thyroid disorders, renal  
CC failure, rheumatoid arthritis, CNS disorders, infections such as HIV-1,  
CC metabolic and cardiovascular diseases, proliferative disorders and  
CC hormonal disorders. Modulators of GPCR-X activity have the utility for  
CC treating neurological disorders, including schizophrenia, ADHD/ADD  
CC (attention deficit-hyperactivity disorder/attention deficit disorder),  
CC and neuronal disorders such as Alzheimer's disease, Parkinson's disease,  
CC migraine and senile dementia. Additional disorders include inflammatory  
CC conditions (e.g. Crohn's disease), rheumatoid arthritis, autoimmune  
CC disorders, cancers, respiratory ailments such as asthma, and inflammatory  
CC diseases e.g. inflammatory bowel disease  
XX  
SQ Sequence 346 AA;  
Query Match 100.0%; Score 1853; DB 4; Length 346;  
Best Local Similarity 100.0%; Pred. No. 7, 4e-199;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MYNGSCRIEGDTISQVMPPLLIIVFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVA 60  
DB 1 MYNGSCRIEGDTISQVMPPLLIIVFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVA 60  
QY 61 DELLMTCLPFRDYLLRRHAFGDI PCRVLFTLANNRAGSIVFTVVAADRYFKVHP 120  
DB 61 DELLMTCLPFRDYLLRRHAFGDI PCRVLFTLANNRAGSIVFTVVAADRYFKVHP 120  
QY 121 HVAVNTISRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
DB 121 HVAVNTISRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
QY 181 FOLEFPMPLGIILFCSFKIWSLRRRQQLARQARKKATRFIMVAIVITCYLPSVSAR 240  
DB 181 FOLEFPMPLGIILFCSFKIWSLRRRQQLARQARKKATRFIMVAIVITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPSVHGALHTLTSTYNNMMLDPLVYFSSPPKFKYKLIKICSLKPK 300  
DB 241 LYFLMTVPSSACDPSVHGALHTLTSTYNNMMLDPLVYFSSPPKFKYKLIKICSLKPK 300  
QY 301 QPCHSKTQRPPEMPISNLGRRCISVANSFQSQDQMDPHIVEWH 346  
DB 301 QPCHSKTQRPPEMPISNLGRRCISVANSFQSQDQMDPHIVEWH 346  
RESULT 2  
ID ABB44522  
AC ABB44522 standard; protein; 346 AA.  
XX  
XX 28-JAN-2002 (first entry)  
XX  
XX Human GPCR1a polypeptide SEQ ID NO 2.  
XX  
XX Human; GPCR; G-coupled protein-receptor; cardiant; antiarteriosclerotic;

KW anabolic; cytostatic; antiviral; gene therapy; cardiomyopathy; obesity;  
KW anorexia; diabetes; osteoporosis; Crohn's disease; multiple sclerosis;  
KW asthma; Alzheimer's disease; Parkinson's disorder; Huntington's disease;  
KW infection; human immunodeficiency virus; HIV.  
XX Homo sapiens.  
XX WO200174904-A2.  
XX 11-OCT-2001.  
XX 30-MAR-2001; 2001WO-US010241.  
XX 31-MAR-2000; 2000US-0193664P.  
XX 05-APR-2000; 2000US-0194614P.  
XX 06-APR-2000; 2000US-0195063P.  
XX 06-APR-2000; 2000US-0195066P.  
XX 06-APR-2000; 2000US-0195067P.  
XX 06-APR-2000; 2000US-0195068P.  
XX 06-APR-2000; 2000US-0195069P.  
XX 06-APR-2000; 2000US-0195070P.  
XX 06-APR-2000; 2000US-0195510P.  
XX 21-JUL-2000; 2000US-0219855P.  
XX 27-JUL-2000; 2000US-0221284P.  
XX 28-JUL-2000; 2000US-0221325P.  
XX 11-AUG-2000; 2000US-0224588P.  
XX 11-OCT-2000; 2000US-0239613P.  
XX 18-JAN-2001; 2001US-0262508P.  
XX 23-JAN-2001; 2001US-0263433P.  
XX 23-JAN-2001; 2001US-0263604P.  
XX 30-JAN-2001; 2001US-0285161P.  
XX 29-MAR-2001; 2001US-00823172.  
XX (CURA-) CURAGEN CORP.  
XX Majumder K, Vernet CAM, Casman SJ, Wolenc AR, Spaderna SX;  
PI Padigaru M, Mishnu VS, Tchernev VT, Spytek KA, Li L, Baumgartner JC;  
PI Gusev VY;  
XX WPI; 2001-639351/73.  
DR N-PSDB; ABA81529, ABA81530.  
XX New human G-protein coupled receptor X, GPCR-X, polypeptide useful in  
PT treatment or prevention of GPCR-X associated disorders e.g. cardiomyopathy  
PT or atherosclerosis, and to screen for antagonists and agonists useful  
PT therapeutically.  
XX Claim 1; Page 8; 157pp; English.  
XX The invention relates to nucleic acid sequences (ABA81529-ABA81552) that  
CC encode G-coupled protein-receptor related polypeptides (ABB44522-  
CC ABB44543). The isolated polypeptide having a sequence differing by no  
CC more than 15 % of amino acid residues from one of 22 amino acid sequences  
CC (or mature forms of the sequences), fully defined in the specification  
CC and corresponding to human G-protein coupled receptor X (GPCR-X)  
CC polypeptides. The polypeptides have potential cardiant,  
CC antiarteriosclerotic, anabolic, cytostatic and antiviral activity. The  
CC polypeptides can be administered therapeutically, especially using gene  
CC therapy and expressing the encoding DNA in vivo, to treat or prevent  
CC GPCR-X-associated disorders, especially in humans. For example, they can  
CC be used to treat/prevent cardiomyopathy, atherosclerosis, disorders  
CC related to signal processing and metabolic pathway modulation (e.g.  
CC obesity, anorexia), diabetes, osteoporosis, Crohn's disease, multiple  
CC sclerosis, asthma, cancers, neurodegenerative disorders (e.g. Alzheimer's  
CC disease, Parkinson's disorder, Huntington's disease), immune disorders,  
CC haematopoietic disorders, developmental diseases, neurological disorders,  
CC bacterial, fungal, protozoal and viral infections (e.g. with human  
CC immunodeficiency virus (HIV)-1 or HIV-2). They can be used diagnostically  
CC to determine the presence of or predisposition to a disease associated  
CC with altered levels of the polypeptide in mammals (especially humans) by  
CC detecting alterations in polypeptide expression levels relative to  
CC control samples. They are useful to identify agents binding polypeptide  
CC (e.g. cellular receptors or downstream effectors) and/or agents

CC modulating cellular polypeptide expression or activity, useful as  
 CC antagonists and agonists in disease treatment  
 XX  
 SQ Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 4; Length 346;  
 Best Local Similarity 100.0%; Pred. No. 7.4e-199; Mismatches 0; Indels 0; Gaps 0;  
 Matches 346; Conservative 0;

QY 1 MYNGSCRIEGDTISQVMPPLLIYAFVLGALNGVALCGFCFHMKTWKSTVYLFNLAVA 60  
 DB 1 MYNGSCRIEGDTISQVMPPLLIYAFVLGALNGVALCGFCFHMKTWKSTVYLFNLAVA 60

QY 61 DFLLMICLPFRDYLLRRHWAFFGDI PCRVLGFTLAMNRAGSIVFTVVAADRYFKVHP 120  
 DB 61 DFLLMICLPFRDYLLRRHWAFFGDI PCRVLGFTLAMNRAGSIVFTVVAADRYFKVHP 120

QY 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
 DB 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180

QY 181 FOLEFFMPLGIILFCSFKIVMSLRRLRQQLARQARKKATRFIMVVAIVFTCYLPSVSAR 240  
 DB 181 FOLEFFMPLGIILFCSFKIVMSLRRLRQQLARQARKKATRFIMVVAIVFTCYLPSVSAR 240

QY 241 LYFLWTVPSACDPSVHGALHITLSFTYVNSMLDPLVYFFSPSPFKFYNKLIKISLKP 300  
 DB 241 LYFLWTVPSACDPSVHGALHITLSFTYVNSMLDPLVYFFSPSPFKFYNKLIKISLKP 300

QY 301 QPGHKTQRPPEMPISNLGRSCISVANSFQSQSDGQWDPHIVEWH 346  
 DB 301 QPGHKTQRPPEMPISNLGRSCISVANSFQSQSDGQWDPHIVEWH 346

RESULT 3  
 AAU06197  
 ID AAU06197 standard; protein; 346 AA.  
 AC AAU06197;  
 XX  
 XX 19-DEC-2001 (first entry)  
 DT Novel human G protein-coupled receptor (GPCR) protein.  
 DE  
 XX Human; G-protein coupled receptor; GPCR; chemokine receptor; protease;  
 KW hyperproliferative disorder; neurological disorder; psychiatric disease;  
 KW inflammatory disorder; respiratory disorder.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200173029-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 XX 27-MAR-2001; 2001WO-US009522.  
 XX  
 PR 27-MAR-2000; 2000US-0192419P.  
 PR 06-SEP-2000; 2000US-0230459P.  
 PR 20-SEP-2000; 2000US-0066653S.  
 XX  
 XX (PEKE ) PE CORP NY.  
 PA  
 XX  
 XX Ye J, Cravchik A, Di Francesco V, Beasley EM;  
 XX  
 XX WPI; 2001-616503/71.  
 DR N-PSDB; AAS12581.  
 XX  
 XX Novel human G-protein coupled receptor proteins and nucleic acid  
 PT molecules encoding the protein for use in developing human therapeutics  
 PT and diagnostic compositions and for identifying modulators of the  
 PT protein.  
 XX  
 PS Claim 1; Fig 1; 66pp; English.

XX The present invention relates to the isolation of a novel human G-protein  
 CC coupled receptor (GPCR) which is related to the chemokine receptor  
 CC subfamily. The cDNA and gene sequences encoding for GPCR are also given  
 CC in the invention. The sequences of the invention are useful for  
 CC diagnosing and treating diseases or conditions mediated by human  
 CC proteases. Such diseases include hyperproliferative disorders (e.g.  
 CC hyperplasia), neurological disorders (e.g. Parkinson's disease),  
 CC psychiatric diseases (e.g. schizophrenia), inflammatory disorders (e.g.  
 CC diabetic) and respiratory disorders (e.g. adult respiratory distress  
 CC syndrome, ARDS). The GPCR protein is also useful for identifying a  
 CC modulator of the expression of the protein. It also serves as a target  
 CC for identifying agents for use in mammalian therapeutic applications,  
 CC e.g. a human drug, particularly modulating a biological or pathological  
 CC response in a cell or tissue that expresses the protein, in biological  
 CC assays related to GPCRs that are related to members of the chemokine  
 CC receptor subfamily, in drug screening assays and in competition binding  
 CC assays. GPCR is also useful in diagnosing a disease or predisposition to  
 CC a disease mediated by the peptide, in pharmacogenomic analysis. The  
 CC polynucleotide sequences can also be used in gene therapy. The present  
 CC sequence represents the novel human GPCR of the invention  
 XX  
 SQ Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 4; Length 346;  
 Best Local Similarity 100.0%; Pred. No. 7.4e-199;  
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCRIEGDTISQVMPPLLIYAFVLGALNGVALCGFCFHMKTWKSTVYLFNLAVA 60  
 DB 1 MYNGSCRIEGDTISQVMPPLLIYAFVLGALNGVALCGFCFHMKTWKSTVYLFNLAVA 60

QY 61 DFLLMICLPFRDYLLRRHWAFFGDI PCRVLGFTLAMNRAGSIVFTVVAADRYFKVHP 120  
 DB 61 DFLLMICLPFRDYLLRRHWAFFGDI PCRVLGFTLAMNRAGSIVFTVVAADRYFKVHP 120

QY 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
 DB 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180

QY 181 FOLEFFMPLGIILFCSFKIVMSLRRLRQQLARQARKKATRFIMVVAIVFTCYLPSVSAR 240  
 DB 181 FOLEFFMPLGIILFCSFKIVMSLRRLRQQLARQARKKATRFIMVVAIVFTCYLPSVSAR 240

QY 241 LYFLWTVPSACDPSVHGALHITLSFTYVNSMLDPLVYFFSPSPFKFYNKLIKISLKP 300  
 DB 241 LYFLWTVPSACDPSVHGALHITLSFTYVNSMLDPLVYFFSPSPFKFYNKLIKISLKP 300

QY 301 QPGHKTQRPPEMPISNLGRSCISVANSFQSQSDGQWDPHIVEWH 346  
 DB 301 QPGHKTQRPPEMPISNLGRSCISVANSFQSQSDGQWDPHIVEWH 346

RESULT 4  
 AAU04373  
 ID AAU04373 standard; protein; 346 AA.  
 XX  
 AC AAU04373;  
 XX  
 XX 23-OCT-2001 (first entry)  
 DT Human G-protein coupled receptor, hRUP19.  
 DE  
 DE Human; G-protein coupled receptor; GPCR; hRUP19; agonist;  
 KW inverse agonist; lung cancer.  
 KW  
 XX Homo sapiens.  
 OS  
 XX WO200136471-A2.  
 PN  
 XX 25-MAY-2001.  
 PD  
 XX 16-NOV-2000; 2000WO-US031509.

XX 17-NOV-1999; 99US-0166088P.  
PR 17-NOV-1999; 99US-0166099P.  
PR 17-NOV-1999; 99US-0166369P.  
PR 23-DEC-1999; 99US-0171900P.  
PR 23-DEC-1999; 99US-0171901P.  
PR 23-DEC-1999; 99US-0171902P.  
PR 11-FEB-2000; 2000US-0181749P.  
PR 14-MAR-2000; 2000US-0189258P.  
PR 14-MAR-2000; 2000US-0189259P.  
PR 10-APR-2000; 2000US-0195898P.  
PR 10-APR-2000; 2000US-0195899P.  
PR 10-APR-2000; 2000US-0196078P.  
PR 28-APR-2000; 2000US-0200419P.  
PR 12-MAY-2000; 2000US-0203630P.  
PR 12-JUN-2000; 2000US-0210741P.  
PR 12-JUN-2000; 2000US-0210982P.  
PR 21-AUG-2000; 2000US-0226760P.  
PR 26-SEP-2000; 2000US-0235418P.  
PR 26-SEP-2000; 2000US-0235779P.  
PR 20-OCT-2000; 2000US-0243332P.  
PR 20-OCT-2000; 2000US-0243343P.  
PR 24-OCT-2000; 2000US-0243019P.  
XX (AREN-) ARENA PHARM INC.  
XX  
XX Chen R, Dang HT, Lowitz KP;  
PI WPI; 2001-355616/37.  
DR N-PSDB; AAS07946.  
XX  
PT Endogenous and non-endogenous versions of human G-protein coupled  
PT receptors for direct identification of candidate compounds as agonists,  
PT inverse agonists or partial agonists for use as therapeutic agents.  
XX  
XX Claim 45; Page 110-111; 160pp; English.  
XX  
XX The sequence represents a human G-protein coupled receptor (GPCR),  
CC hRUP19. The endogenous and non-endogenous, constitutively activated  
CC versions of human G-protein coupled receptors (GPCR), are useful for  
CC direct identification of candidate compounds as receptor agonists,  
CC inverse agonists or partial agonists having applicability as therapeutic  
CC agents for treating diseases related to GPCR, e.g. lung cancer. Non-  
CC endogenous version of human GPCRs are also utilized in research settings  
CC and in vitro and in vivo system, incorporating GPCRs can be utilised to  
CC elucidate and understand the roles these receptors play in the human  
CC condition, both normal and diseased  
XX  
XX Sequence 346 AA;  
SQ  
Query Match 100.0%; Score 1853; DB 4; Length 346;  
Best Local Similarity 100.0%; Pred. No. 7.4e-199;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MYNGSCRIEGDTISQVMPPLIIVAFVLGALNGVALCGFCFHMKTWKESTVYLENLVA 60  
DB 1 MYNGSCRIEGDTISQVMPPLIIVAFVLGALNGVALCGFCFHMKTWKESTVYLENLVA 60  
QY 61 DELLMLCLPFRDYLRRRHAFGDI PCRVGLFTLANNRAGSIVFLTVVAADRYFKVHP 120  
DB 61 DELLMLCLPFRDYLRRRHAFGDI PCRVGLFTLANNRAGSIVFLTVVAADRYFKVHP 120  
QY 121 HVAVNTISTRVAGIVCTLWALVILGTVYLLLENHLCVQETA VSCSFIMESANGWHIDIM 180  
DB 121 HVAVNTISTRVAGIVCTLWALVILGTVYLLLENHLCVQETA VSCSFIMESANGWHIDIM 180  
QY 181 FOLEFPMPIGILFCSFKIWSLRRRQOLARQARKKATRFIMVVAIVFITCYLPSVSAR 240  
DB 181 FOLEFPMPIGILFCSFKIWSLRRRQOLARQARKKATRFIMVVAIVFITCYLPSVSAR 240  
QY 241 LVFLWTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFFSSPFPKFNKLIKICSLKPK 300  
DB 241 LVFLWTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFFSSPFPKFNKLIKICSLKPK 300

QY 301 QPGHKTQRPPEMPISNLGRSCISVANSFOSQSDGQWDPHIVEWH 346  
DB 301 QPGHKTQRPPEMPISNLGRSCISVANSFOSQSDGQWDPHIVEWH 346  
RESULT 5  
AAE16172  
ID AAE16172 standard; protein; 346 AA.  
XX  
AC AAE16172;  
XX  
DT 26-MAR-2002 (first entry)  
XX  
DE Human G-protein coupled receptor 3 (GCRC-3) protein.  
XX  
KW Human; G-protein coupled receptor 3; cell proliferative disorder;  
KW arteriosclerosis; hepatitis; cancer; neurological disorder; epilepsy;  
KW Alzheimer's disease; Parkinson's disease; cardiovascular disorder;  
KW atherosclerosis; hypertension; myocardial infarction; peptic ulcer;  
KW gastrointestinal disorder; dysphagia; anorexia; autoimmune disorder;  
KW acquired immune deficiency syndrome; inflammatory disorder; infection;  
KW Addison's disease; allergy; Grave's disease; metabolic disorder; AIDS;  
KW diabetes; obesity; osteoporosis; gene therapy; GCRC-3.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT Peptide 1..32  
FT /label= Signal\_peptide  
FT Domain 20..44  
FT /note= "Transmembrane domain"  
FT Protein 33..346  
FT /label= Human\_mature\_GCRC-3\_protein  
FT Domain 93..110  
FT /note= "Transmembrane domain"  
FT Domain 137..154  
FT /note= "Transmembrane domain"  
FT Domain 222..244  
FT /note= "Transmembrane domain"  
XX  
PN WO200187937-A2.  
XX  
PD 22-NOV-2001.  
XX  
PF 17-MAY-2001; 2001WO-US016285.  
XX  
PR 18-MAY-2000; 2000US-0205628P.  
PR 22-MAY-2000; 2000US-0206222P.  
PR 25-MAY-2000; 2000US-0207566P.  
PR 02-JUN-2000; 2000US-0208834P.  
PR 02-JUN-2000; 2000US-0208861P.  
XX  
XX (INCY-) INCYTE GENOMICS INC.  
XX  
XX Patterson C, Lu DAM, Thornton M, Lu Y, Tribouley CM, Graul R;  
XX Khan FA, Gandhi AR, Wallia NK, Nguyen DB, Yue H, Hafalia A;  
XX Elliott VS, Lal P, Reddy R, Kallick DA, Tang TY, Au-Young J;  
XX WPI; 2002-089844/12.  
XX  
DR N-PSDB; AAD26371.  
XX  
XX Novel G-protein coupled receptors and polynucleotides useful for  
PT diagnosis, treatment and prevention of disorders of cell proliferation,  
PT neurological, cardiovascular, metabolic disorders and viral infections.  
XX  
XX Claim 1; Page 105-106; 115pp; English.  
XX  
XX The invention relates to human G-protein coupled receptor (GCRC)  
CC polypeptides and polynucleotides. GCRC polypeptides are useful for  
CC screening compounds that modulate their activity. They are useful in the  
CC diagnosis, prevention and treatment of disorders which include cell  
CC proliferative disorders such as arteriosclerosis, hepatitis,



CC myelofibrosis, psoriasis and cancer including adenocarcinoma, leukaemia,  
 CC lymphoma; neurological disorders such as epilepsy, ischaemic  
 CC cerebrovascular disease, Alzheimer's disease, Pick's disease, dementia,  
 CC Parkinson's disease, ataxias, multiple sclerosis, bacterial and viral  
 CC meningitis, Creutzfeldt-Jakob disease, schizophrenic disorders, amnesia;  
 CC cardiovascular disorders such as arteriovenous fistula, atherosclerosis,  
 CC hypertension, vascular tumours, myocardial infarction, hypertensive heart  
 CC disease, infective endocarditis, cardiomyopathy, myocarditis;  
 CC gastrointestinal disorders such as dysphagia, peptic oesophagitis,  
 CC emesis, anorexia, nausea, peptic ulcer, cholelithiasis, diarrhoea,  
 CC constipation, acquired immune deficiency syndrome (AIDS), hepatic  
 CC encephalopathy; autoimmune/inflammatory disorders such as Addison's  
 CC disease, allergies, spondylitis, amyloidosis, anaemia, asthma, contact  
 CC dermatitis, Crohn's disease, diabetes mellitus, Goodpasture's syndrome,  
 CC emphysema, Grave's disease, gout, multiple sclerosis, rheumatoid  
 CC arthritis, systemic lupus erythematosus, uveitis, viral, bacterial,  
 CC fungal, parasitic, protozoal and helminthic infections and trauma;  
 CC metabolic disorders such as diabetes, obesity and osteoporosis; and viral  
 CC infections such as infection caused by viral agent classified as  
 CC adenovirus, arenavirus, bunyavirus. Polynucleotides of the invention are  
 CC useful as probes for assessing toxicity of test compounds. They are also  
 CC used in gene therapy. The present sequence is human G-protein coupled  
 CC receptor 3 (GREC-3) protein  
 XX  
 XX Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 5; Length 346;  
 Best Local Similarity 100.0%; Pred. No. 7.4e-199;  
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MYNGSCRIEGDTISQVMPPLIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLVA 60  
 Db 1 MYNGSCRIEGDTISQVMPPLIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLVA 60  
 QY 61 DELLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYKVVHP 120  
 Db 61 DELLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYKVVHP 120  
 QY 121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCBSFIMESANGWHDM 180  
 Db 121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCBSFIMESANGWHDM 180  
 QY 181 FOLEPMPGIIILFCSEFKIVSLRRRQOLARQARKKATRFIMVAIVFITCYLPSVSAR 240  
 Db 181 FOLEPMPGIIILFCSEFKIVSLRRRQOLARQARKKATRFIMVAIVFITCYLPSVSAR 240  
 QY 241 LYFLWTVPSSADCPVSHGALHTLSFTYNSMLDPLVYFSPSPKFKYKLIKISLKP 300  
 Db 241 LYFLWTVPSSADCPVSHGALHTLSFTYNSMLDPLVYFSPSPKFKYKLIKISLKP 300  
 QY 301 QPCHSKTORPEEMPISNLGRSCISVANSFQSDGQMDPHIVEMH 346  
 Db 301 QPCHSKTORPEEMPISNLGRSCISVANSFQSDGQMDPHIVEMH 346

RESULT 6  
 AAU11401  
 ID AAU11401 standard; protein; 346 AA.  
 XX  
 AC AAU11401;  
 XX  
 XX  
 DT 26-FEB-2002 (first entry)  
 XX  
 DE HM74-like G-protein coupled receptor (GPCR).

XX HM74-like GPCR; G-protein coupled receptor; antibacterial; fungicide;  
 KW protozoacide; analgesic; cytosstatic; neuroleptic; nootropic;  
 KW anticonvulsant; tranquilliser; viral infection; pain; cancer; anorexia;  
 KW bulimia; asthma; central nervous system disease; CNS disease;  
 KW cardiovascular disease; hypertension; hypertension; angina pectoris;  
 KW myocardial infarction; urinary retention; osteoporosis; ulcer; asthma;  
 KW inflammation; allergy; benign prostatic hypertrophy; multiple sclerosis;  
 KW psychotic disorder; neurological disorder; dyskinesia;

KW Huntington's disease; Tourette's syndrome; anxiety; schizophrenia;  
 KW manic depression; delirium; dementia; mental retardation.  
 XX Homo sapiens.  
 FH Key Location/Qualifiers  
 FT Domain 20..37  
 FT Domain 53..73  
 FT Domain 91..113  
 FT Region 101..118  
 FT Domain 133..150  
 FT Domain 180..197  
 FT Domain 223..242  
 FT Domain 260..279  
 FT Domain 260..279  
 XX WO200177320-A2.  
 XX 18-OCT-2001.  
 XX 04-APR-2001; 2001WO-EP003811.  
 XX 05-APR-2000; 2000US-0194701P.  
 XX (FARB ) BAYER AG.  
 XX Xiao Y;  
 XX WPI: 2002-049147/06.  
 XX N-PSDB; AAS18501.

Novel isolated polynucleotide, useful for treating infection, pain, cancer, asthma, hypertension, myocardial infarction, urinary retention, osteoporosis, encodes the human HM74-like G-protein coupled receptor polypeptide.  
 Claim 1; Fig 2; 77pp; English.  
 The invention describes a novel isolated polynucleotide (I) encoding a human HM74-like G-protein coupled receptor (GPCR) polypeptide. Reagents that regulate HM74-like GPCR are useful for modulating the activity of the protein in a disease selected from bacterial, fungal, protozoan, and viral infection, pain, cancer, anorexia, bulimia, asthma, central nervous system (CNS) disease, cardiovascular disease, hypotension, hypertension, angina pectoris, myocardial infarction, urinary retention, osteoporosis, ulcer, asthma, inflammation, allergy, benign prostatic hypertrophy, multiple sclerosis and dyskinesia such as Huntington's disease and Tourette's syndrome. The composition is also useful for treating psychotic and neurological disorders such as anxiety, schizophrenia, manic depression, delirium, dementia and severe mental retardation. (I) or the HM74-like GPCR polypeptide are also useful for treating the above mentioned diseases. (I) is useful in a diagnostic assay for detecting diseases, susceptibility to diseases and abnormalities related to the presence of mutations in the nucleic acid sequences which encode a GPCR. The polypeptide is useful to identify test compounds which may act as agonists or antagonists at the receptor site and which can be regulated to provide therapeutic effects. The polypeptide is also useful as a bait protein in a two-hybrid or three-hybrid assay, and to immunise a mammal for production of polyclonal antibodies. This the amino acid sequence of human HM74-like GPCR described in the method of the invention

Sequence 346 AA;  
 Query Match 100.0%; Score 1853; DB 5; Length 346;  
 Best Local Similarity 100.0%; Pred. No. 7.4e-199;

Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 MYNGSCCRLEGDTISQVMPPLLIYAFVLGALGVNLCGFCFHMKTWKPSTVYLFNLAVA 60
Db	1 MYNGSCCRLEGDTISQVMPPLLIYAFVLGALGVNLCGFCFHMKTWKPSTVYLFNLAVA 60
QY	61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAAADRYFKVHP 120
Db	61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAAADRYFKVHP 120
QY	121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESTIMESANGWHDIM 180
Db	121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESTIMESANGWHDIM 180
QY	181 FOLEFPMPLGIILFCSPFKIVWSLRRRQQLARQARKKATRFIMVVAIVFITCYLPSVSAR 240
Db	181 FOLEFPMPLGIILFCSPFKIVWSLRRRQQLARQARKKATRFIMVVAIVFITCYLPSVSAR 240
QY	241 LYFLMTVPSSACDPSVHGALHITLFTYVNSMLDPLVYVFFSPSPKPKYKIKICSLKPK 300
Db	241 LYFLMTVPSSACDPSVHGALHITLFTYVNSMLDPLVYVFFSPSPKPKYKIKICSLKPK 300
QY	301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346
Db	301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346
RESULT 7	
AAE17077	
ID	AAE17077 standard; protein; 346 AA.
AC	AAE17077;
XX	
DT	18-APR-2002 (first entry)
DE	Human G-protein coupled receptor (GPCRx14) protein.
KW	Human: G-protein coupled receptor; GPCRx14; cerebroprotective; vomiting;
KW	receptor-mediated disorder; therapy; urinary retention; allergy; obesity;
KW	osteporosis; angina pectoris; restenosis; atherosclerosis; hypotension;
KW	anorexia; tumour; migraine; acute heart failure; ulcer; antinflammatory;
KW	stroke; hypertension; neuronal disorder; myocardial infarction psychotic;
KW	depression; mental retardation; neurodegenerative disease; antibacterial;
KW	Alzheimer's disease; dementia; ischaemia; Parkinson's disease; antiviral;
KW	Huntington's disease; anxiety; antifungal; immunosuppressive; cytostatic;
KW	vulnerable; analgesic; anorectic; anabolic; diuretic; cardiant; nootropic;
KW	antiemetic; vasotropic; diabetes; cancer; tranquilizer; neuroleptic.
OS	Homo sapiens.
Key	Location/Qualifiers
FT	17..40
FT	/note= "Transmembrane domain"
FT	52..70
FT	/note= "Transmembrane domain"
FT	90..111
FT	/note= "Transmembrane domain"
FT	132..152
FT	/note= "Transmembrane domain"
FT	185..203
FT	/note= "Transmembrane domain"
FT	221..237
FT	/note= "Transmembrane domain"
FT	258..281
FT	/note= "Transmembrane domain"
PN	WO200198330-A2.
PD	27-DEC-2001.
PF	20-JUN-2001; 2001WO-BE000104.
XX	
XX	20-JUN-2000; 2000US-0212913P.
PR	

PR	11-JUL-2000; 2000US-0217494P.
PR	26-JAN-2001; 2001EP-00870015.
XX	12-FEB-2001; 2001EP-00870024.
PA	(EURO-) EUROSREEN SA.
XX	
PI	Lannoy V, Brezillon S, Dethaux M, Parmentier M, Govarts C;
XX	
DR	WPI; 2002-130789/17.
DR	N-PSDB; AAD27497.
XX	
PT	New G-protein coupled receptor, useful in the manufacture of medicaments
PT	for treating receptor mediated disorders e.g. acute heart failure and
PT	Alzheimer's disease.
XX	
PS	Disclosure, Page 29; 46pp; English.
XX	
CC	The present invention relates to a G-protein coupled receptor (GPCR) and
CC	nucleotide encoding it. GPCR are useful in the manufacture of a
CC	medicament for the prevention and/or treatment of receptor-mediated
CC	disorders e.g. viral infections, virus and bacterial diseases, diseases
CC	and disorders involving disturbances of cell migration, diseases or
CC	perturbations of immune system including cancers, development of tumours
CC	and tumour metastasis, inflammatory and neoplastic processes; bacterial
CC	and fungal infections, in wound and bone healing, dysfunction of
CC	regulatory growth functions; pains, diabetes, obesity, anorexia, bulimia,
CC	urinary retention, osteoporosis, angina pectoris, atherosclerosis,
CC	restenosis, diseases involving excessive or reduced proliferation or loss
CC	of smooth muscle cells, aneurysm, stroke, ischaemia, ulcers, allergies,
CC	benign prostatic hypertrophy, migraine, vomiting; blood circulating
CC	affections including acute heart failure, hypotension, hypertension and
CC	myocardial infarction psychotic; neuronal disorders such as anxiety,
CC	schizophrenia, manic depression, depression, delirium, dementia, severe
CC	mental retardation; degenerative diseases; neurodegenerative diseases
CC	such as Alzheimer's disease, Parkinson's disease; and dyskinesias e.g.
CC	Huntington's disease or Gilles de la Tourette's syndrome and other
CC	related diseases. The present sequence is GPCRx14 protein
XX	
SQ	Sequence 346 AA;
Query Match 100.0%; Score 1853; DB 5; Length 346;	
Best Local Similarity 100.0%; Pred. No. 7.4e-199;	
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 MYNGSCCRLEGDTISQVMPPLLIYAFVLGALGVNLCGFCFHMKTWKPSTVYLFNLAVA 60
Db	1 MYNGSCCRLEGDTISQVMPPLLIYAFVLGALGVNLCGFCFHMKTWKPSTVYLFNLAVA 60
QY	61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAAADRYFKVHP 120
Db	61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAAADRYFKVHP 120
QY	121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESTIMESANGWHDIM 180
Db	121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESTIMESANGWHDIM 180
QY	181 FOLEFPMPLGIILFCSPFKIVWSLRRRQQLARQARKKATRFIMVVAIVFITCYLPSVSAR 240
Db	181 FOLEFPMPLGIILFCSPFKIVWSLRRRQQLARQARKKATRFIMVVAIVFITCYLPSVSAR 240
QY	241 LYFLMTVPSSACDPSVHGALHITLFTYVNSMLDPLVYVFFSPSPKPKYKIKICSLKPK 300
Db	241 LYFLMTVPSSACDPSVHGALHITLFTYVNSMLDPLVYVFFSPSPKPKYKIKICSLKPK 300
QY	301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346
Db	301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346
RESULT 8	
ABB08596	
ID	ABB08596 standard; protein; 346 AA.
XX	

AC ABB08596;  
 DT 01-JUL-2002 (first entry)  
 DE Human lipocyte-originated G protein-coupled receptor protein TGR13.  
 KW Antiinflammatory; anorectic; obesity; inflammation; gene therapy; human;  
 KW G protein-coupled receptor protein TGR13.  
 OS Homo sapiens.  
 PN WO200202767-A1.  
 PD 10-JAN-2002.  
 XX 02-JUL-2001; 2001WO-JP005711.  
 XX 04-JUL-2000; 2000JP-00206860.  
 PR 31-JUL-2000; 2000JP-00235274.  
 XX (TAKE ) TAKEDA CHEM IND LTD.  
 XX Shibata S, Horikoshi K, Taniyama Y, Shintani Y, Miyajima N;  
 WPI; 2002-164535/21.  
 DR N-PSDB; ABA99236.  
 XX New human lipocyte-originated G protein-coupled receptor proteins TGR13  
 PT and encoding DNAs, for developing drugs to treat obesity and  
 PT inflammations, including gene therapy.  
 XX Claim 1; Fig 2; 101pp; Japanese.  
 XX This invention relates to a human lipocyte-originated G protein-coupled  
 CC receptor proteins TGR13, thought to be antiinflammatory and anorectic in  
 CC their action. The proteins and encoded DNAs are for use in developing  
 CC drugs to treat obesity and inflammation, including gene therapy. The  
 CC present sequence represents the human lipocyte-originated G protein-  
 CC coupled receptor protein TGR13  
 XX  
 SQ Sequence 346' AA;  
 Query Match 100.0%; Score 1853; DB 5; Length 346;  
 Best Local Similarity 100.0%; Pred. No. 7.4e-199;  
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MYNSCCRIEGDTSIQVMPPLLIIVAVLGNLGNVALCGFCFHMKTWKPSVYLFNLAVA 60  
 DB 1 MYNSCCRIEGDTSIQVMPPLLIIVAVLGNLGNVALCGFCFHMKTWKPSVYLFNLAVA 60  
 QY 61 DFLLMICLPRTDYLLRRHWAFFGDI PCRVGLFTLANNRAGSIVFLTVAAADRYFKVHP 120  
 DB 61 DFLLMICLPRTDYLLRRHWAFFGDI PCRVGLFTLANNRAGSIVFLTVAAADRYFKVHP 120  
 QY 121 HVAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
 DB 121 HVAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
 QY 181 FQLEFFMPLGIILFCFKIWSLRRQQLARQARKKATRFIMVVAIVITCYLPVSAR 240  
 DB 181 FQLEFFMPLGIILFCFKIWSLRRQQLARQARKKATRFIMVVAIVITCYLPVSAR 240  
 QY 241 LYFLWTVPSSACDPSVHGALHITLSTYNNMLDPLVYFFSSPFKFNKLCIKSLKPK 300  
 DB 241 LYFLWTVPSSACDPSVHGALHITLSTYNNMLDPLVYFFSSPFKFNKLCIKSLKPK 300  
 QY 301 QPGHSTQRPPEMPIGNLGRRCISVANSFQSDGQWDPHIVEWH 346  
 DB 301 QPGHSTQRPPEMPIGNLGRRCISVANSFQSDGQWDPHIVEWH 346  
 RESULT 9  
 ABB08596

ID ABB08596 standard; protein; 346 AA.  
 AC ABB08596;  
 DT 26-NOV-2002 (first entry)  
 DE Human G protein-coupled receptor protein, nGPCR-11.  
 XX  
 KW Human; receptor; G protein-coupled receptor; GPCR; nGPCR; beGPCR;  
 KW nG protein coupled receptor; communication; serpentine structure;  
 KW seven transmembrane receptor; 7TM; mental disorder; diagnosis;  
 KW genetic predisposition; brain; immune response; gene therapy;  
 KW anxiety disorder; depression; bipolar disorder; schizophrenia;  
 KW Huntington's disease; dyskinesia; manic depression; stroke;  
 KW Parkinson's disease; Alzheimer's disease; diabetes; inflammation; wound;  
 KW tranquiliser.  
 XX Homo sapiens.  
 XX WO200264789-A1.  
 XX 22-AUG-2002.  
 XX 14-FEB-2001; 2001WO-US004641.  
 XX 14-FEB-2001; 2001WO-US004641.  
 XX (PHAA ) PHARMACIA & UPJOHN CO.  
 XX Lind P, Parodi LA, Vogeli G, Wood LS;  
 WPI; 2002-674879/72.  
 DR N-PSDB; ABS70241.  
 XX New nucleic acids and polypeptides of the nG protein-coupled receptor,  
 PT useful for treating or diagnosing a mental disorder or a disorder  
 PT affecting the brain, e.g. anxiety disorders, schizophrenia, stroke or  
 PT Parkinson's disease.  
 XX Example 1; Page 84; 244pp; English.  
 CC The invention discloses an isolated human polypeptide, and encoding  
 CC nucleic acid, for a G protein-coupled receptor (GPCR), particularly the  
 CC nG protein coupled receptor-14 (nGPCR-14). GPCRs are vital in the  
 CC communication between cells and their environment and are characterised  
 CC by a serpentine structure that passes through the cell membrane seven  
 CC times, hence the reason such receptors are sometimes called seven  
 CC transmembrane receptors (7TM). The polynucleotides and polypeptides are  
 CC useful for identifying an nGPCR allelic variant that correlates with a  
 CC mental disorder, for isolating an antibody that binds to an epitope of  
 CC the polypeptide, for identifying a compound that binds the polypeptide or  
 CC polynucleotide and/or modulates its biological activity, for screening a  
 CC human subject to diagnose a disorder, or a genetic predisposition to a  
 CC disorder, affecting the brain or a genetic disposition to the disorder,  
 CC for identifying compounds useful for the treatment of a mental disorder  
 CC and for identifying a compound useful as a modulator of binding between  
 CC nGPCR-14 and a binding partner of nGPCR-14. The polypeptide is also  
 CC useful for inducing an immune response in a mammal. The nucleic acid or  
 CC polypeptide is particularly useful, using gene therapy, for treating e.g.  
 CC anxiety disorders, depression, bipolar disorder, schizophrenia,  
 CC Huntington's disease, dyskinesias, manic depression, stroke, Parkinson's  
 CC disease or Alzheimer's disease. The nucleic acid and polypeptide may also  
 CC be used for treating diabetes, inflammation or wounds. The sequences  
 CC presented in ABB08596-ABG93793 and ABB08596-ABG93796 are the nGPCR  
 CC referred to as beGPCRs) proteins  
 XX Sequence 346' AA;  
 SQ  
 Query Match 100.0%; Score 1853; DB 5; Length 346;  
 Best Local Similarity 100.0%; Pred. No. 7.4e-199;  
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MYNSCCRIEGDTSIQVMPPLLIIVAVLGNLGNVALCGFCFHMKTWKPSVYLFNLAVA 60

Db 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNVALCGCFHMKTKPSTVYLENLAVA 60  
QY 61 DFLLMICLPFRDYTLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYEKVVHP 120  
Db 61 DFLLMICLPFRDYTLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYEKVVHP 120  
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM 180  
Db 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM 180  
QY 181 FOLEFFMPLGIILFCSEFKIVMSLRRRQOLARQARMKKATRFIMVVAIVFIITCYLPSVSAR 240  
Db 181 FOLEFFMPLGIILFCSEFKIVMSLRRRQOLARQARMKKATRFIMVVAIVFIITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYVNSMLDPLVYFSSPPKPKYKIKICSLKPK 300  
Db 241 LYFLMTVPSSACDPSVHGALHITLSFTYVNSMLDPLVYFSSPPKPKYKIKICSLKPK 300  
QY 301 QPGHKTQRPPEMPISNLRGRSCISVANSFQSDGQWDPHIVEWH 346  
Db 301 QPGHKTQRPPEMPISNLRGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 10  
ABP95599  
ID ABP95599 standard; protein; 346 AA.  
XX AC ABP95599;  
- DT 06-MAR-2003 (first entry)  
DE Human GPCR polypeptide SEQ ID NO 8.  
XX KW Human; GPCR; G protein coupled receptor; signal transduction; olfactory;  
- KW drug development; gustatory; taste; fragrance; receptor.  
OS Homo sapiens.  
XX PN WO200216548-A2.  
XX PD 28-FEB-2002.  
XX PF 30-JUL-2001; 2001WO-IB001446.  
XX PR 04-AUG-2000; 2000JP-00237819.  
XX PR 13-FEB-2001; 2001JP-00034434.  
XX PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.  
XX PI Haga T, Takeda S, Mitaku S;  
XX WPI; 2002-304118/34.  
DR N-PSDB; AB242873.  
XX Database global search for G protein-coupled receptors, proteins and  
PT encoded genes for studying in vivo signal transduction mechanism and  
PT identifying targets for drug development.  
XX Claim 10; SEQ ID NO 8; 97pp + Sequence Listing; Japanese.

XX The invention relates to a method for screening G protein-coupled  
CC receptor (GPCR) genes (AB242870-AB243216) and/or GPCR proteins (ABP95596-  
CC ABP95942) by extracting open-reading frames containing 6-8 transmembrane  
CC domains with 250-1000 amino acid residues to give a gene homologous with  
CC a known GPCR gene. The receptor proteins and encoded genes are useful for  
CC studying in vivo signal transduction mechanism and identifying targets  
CC for drug development e.g. based on olfactory and gustatory receptors in  
CC form of agonists and antagonists by screening intrinsic and extrinsic  
CC ligands as bitter taste inhibitors, taste enhancers and fragrance  
CC improvers. Note: The sequence data for this patent did not form part of  
CC the printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 346 AA;  
Query Match 100.0%; Score 1853; DB 5; Length 346;  
Best Local Similarity 100.0%; Pred. No. 7.4e-199;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNVALCGCFHMKTKPSTVYLENLAVA 60  
Db 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNVALCGCFHMKTKPSTVYLENLAVA 60  
QY 61 DFLLMICLPFRDYTLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYEKVVHP 120  
Db 61 DFLLMICLPFRDYTLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYEKVVHP 120  
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM 180  
Db 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCESFIMESANGWHDIM 180  
QY 181 FOLEFFMPLGIILFCSEFKIVMSLRRRQOLARQARMKKATRFIMVVAIVFIITCYLPSVSAR 240  
Db 181 FOLEFFMPLGIILFCSEFKIVMSLRRRQOLARQARMKKATRFIMVVAIVFIITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYVNSMLDPLVYFSSPPKPKYKIKICSLKPK 300  
Db 241 LYFLMTVPSSACDPSVHGALHITLSFTYVNSMLDPLVYFSSPPKPKYKIKICSLKPK 300  
QY 301 QPGHKTQRPPEMPISNLRGRSCISVANSFQSDGQWDPHIVEWH 346  
Db 301 QPGHKTQRPPEMPISNLRGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 11  
AAO14788  
ID AAO14788 standard; protein; 346 AA.  
XX AC AAO14788;  
XX DT 28-JUN-2002 (first entry)  
XX DE Human purinergic-like G-protein coupled receptor (AXOR87).  
XX KW Human; purinergic-like G-protein coupled receptor; AXOR87; immunity;  
KW autoimmunity; inflammation; immunodeficiency; bacterial infection;  
KW obesity; anorexia; bulimia; asthma; psoriasis; rheumatoid arthritis;  
KW osteoarthritis; psychotic disorder; neurological disorder; vaccine;  
KW chromosome 12q24.  
XX OS Homo sapiens.  
XX PN GB2365868-A.  
XX PD 27-FEB-2002.  
XX PF 25-MAY-2001; 2001GB-00012860.  
XX PR 30-MAY-2000; 2000US-00580675.  
XX PR 02-NOV-2000; 2000GB-00026839.  
XX PA (SMK) SMITHKLINE BEECHAM CORP.  
XX PA (SMK) SMITHKLINE BEECHAM PLC.  
XX PA (GLAX) GLAXO GROUP LTD.  
XX PI Ignar DM, Elshourbagy N, Gattu M, Shabon U;  
DR WPI; 2002-364852/40.  
DR N-PSDB; AAL42499.  
XX New purinergic-like G-protein coupled receptor AXOR87 polypeptide and  
PT polynucleotide, useful for treating diseases related to autoimmunity,  
PT inflammation, immunodeficiency, or bacterial, fungal, viral and protozoal  
PT infections.

XX	Claim 2; Page 36; 47pp; English.	
PS	The invention comprises the amino acid and coding sequence of the human	
CC	purinergic-like G-protein coupled receptor AXOR87. The AXOR87 DNA and	
CC	protein sequences of the invention may be used for treating diseases	
CC	related to immunity, autoimmunity, inflammation, immunodeficiency, and	
CC	infections (i.e. bacterial, fungal, protozoan). The AXOR87 DNA and	
CC	protein sequences are particularly useful for treating: cancers,	
CC	diabetes, obesity, anorexia, bulimia, asthma, psoriasis, rheumatoid	
CC	arthritis, osteoarthritis, as well as psychotic and neurological	
CC	disorders. The AXOR87 DNA and protein sequences may also be used as	
CC	vaccines. The present amino acid sequence (encoded by a sequence located	
CC	on chromosome 12q24) represents the human AXOR87 protein	
XX	Sequence 346 AA;	
SQ		
	Query Match 100.0%; Score 1853; DB 5; Length 346;	
	Best Local Similarity 100.0%; Pred. No. 7.4e-199;	
	Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 MYNSCCRIEGTISQVMPPLIVAFVLGALGVNLCVQETAVSCSFIMESANGWHDIM 60	
Db		
	1 MYNSCCRIEGTISQVMPPLIVAFVLGALGVNLCVQETAVSCSFIMESANGWHDIM 60	
QY	61 DFLLMICLPFRDYTLRRRHAFGDI PCRVLFTLANNRAGSIVFLTVVAADRYPKVHP 120	
Db		
	61 DFLLMICLPFRDYTLRRRHAFGDI PCRVLFTLANNRAGSIVFLTVVAADRYPKVHP 120	
QY	121 HAVNTISTRVAGICTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180	
Db		
	121 HAVNTISTRVAGICTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180	
- QY	181 FOLEFPMPLGIILFCSFKIWSLRRRQQLARQARKKATRFIMVAIVFITCYLPSVSAR 240	
Db		
	181 FOLEFPMPLGIILFCSFKIWSLRRRQQLARQARKKATRFIMVAIVFITCYLPSVSAR 240	
QY	241 LYFLMTVPSSACDPSVHGALHITLFTYNNMMLDPLVYFSSPKFYNNKLKICSLRKP 300	
Db		
	241 LYFLMTVPSSACDPSVHGALHITLFTYNNMMLDPLVYFSSPKFYNNKLKICSLRKP 300	
QY	301 QPGHKTQRPPEMPSINLGRRCISVANSFQSDGQWDPHIVEWH 346	
Db		
	301 QPGHKTQRPPEMPSINLGRRCISVANSFQSDGQWDPHIVEWH 346	
RESULT 12		
AAE24354		
ID	AAE24354 standard; protein; 346 AA.	
XX		
AC	AAE24354;	
XX		
DT	04-OCT-2002 (first entry)	
XX		
DE	Human G protein coupled receptor (GPCR), 57242 protein.	
XX		
KW	Human; G protein coupled receptor; GPCR; 57242 protein; overweight;	
KW	metabolic disorder; lipogenesis; lipolysis; immunomodulator; heart;	
KW	bone disorder; osteoporosis; osteogenesis; bone resorption; cachexia;	
KW	hyperlipidaemia; anorexia; haematopoietic disorder; osteopathic;	
KW	autoimmune disease; psoriasis; multiple sclerosis; brain disorder;	
KW	degenerative disease; Alzheimer's disease; Pick disease; diabetes;	
KW	adipocyte; hyperplastic growth; hypertrophic growth; gene therapy;	
KW	obesity; anorectic; receptor.	
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Peptide	1..37
FT	Domain	/label= Signal_peptide
FT		1..20
FT		/note= "N-terminal non-transmembrane domain"
FT	Modified-site	3..6

FT	Cleavage-site	/note= "N-glycosylation site"
FT		9..10
FT	Domain	/note= "Cleavage site for mitochondrial preseq"
FT		21..42
FT	Domain	/note= "Transmembrane domain"
FT		32..278
FT	Protein	/note= "GPCR domain"
FT		38..346
FT	Domain	/note= "Human mature GPCR protein"
FT		43..51
FT	Domain	/note= "Non-transmembrane domain"
FT		52..70
FT	Region	/note= "Transmembrane domain"
FT		71..89
FT	Peptide	/note= "Extracellular loop"
FT		77..80
FT	Domain	/note= "Nuclear localisation signal"
FT		90..111
FT	Domain	/note= "Transmembrane domain"
FT		112..130
FT	Domain	/note= "Non-transmembrane domain"
FT		131..152
FT	Region	/note= "Transmembrane domain"
FT		153..184
FT	Domain	/note= "Extracellular loop"
FT		185..201
FT	Domain	/note= "Transmembrane domain"
FT		202..220
FT	Peptide	/note= "Non-transmembrane domain"
FT		204..220
FT	Modified-site	/note= "Nuclear localisation signal"
FT		216..219
FT		/note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
FT	Domain	221..245
FT	Region	/note= "Transmembrane domain"
FT		245..258
FT	Domain	/note= "Extracellular loop"
FT		246..255
FT	Domain	/note= "Non-transmembrane domain"
FT		259..280
FT	Domain	/note= "Transmembrane domain"
FT		281..346
FT		/note= "C-terminal cytoplasmic domain"
PN		WO200218579-A2.
XX		07-MAR-2002.
PD		29-AUG-2001; 2001WO-US026882.
XX		29-AUG-2000; 2000US-0228409P.
PR		(MILL-) MILLENNIUM PHARM INC.
XX		Glucksmann MA;
PI		WPI: 2002-479433/51.
XX		N-PSDB; AAD39181.
DR		Human G protein coupled receptor nucleic acid and polypeptide molecules,
XX		designated 57242, useful for diagnosing, preventing or treating aberrant
PT		lipogenesis or aberrant lipolysis, obesity, diabetes or bone disorders
PT		(e.g. osteoporosis).
PT		Claim 9; Page 112-113; 114pp; English.
XX		The invention relates to G protein coupled receptor (GPCR) family member,
CC		57242 and its corresponding nucleic acid sequence. The 57242 nucleic acid
CC		and polypeptide are useful for diagnosing, preventing or treating a
CC		subject having or at risk of developing a metabolic disorder,
CC		particularly a disorder associated with aberrant lipogenesis or aberrant
CC		lipolysis, obesity or diabetes. The 57242 DNA and protein are also useful

CC for treating a subject having bone disorder, where the disorder is  
CC osteoporosis or a disorder associated with aberrant osteogenesis or  
CC aberrant bone resorption, these diseases include obesity, diabetes,  
CC hyperlipidemia, overweight, anorexia or cachexia. The 57242 DNA and  
CC protein are also useful for treating a subject having haematopoietic  
CC disorders, autoimmune disorders e.g. psoriasis and multiple sclerosis,  
CC brain disorders, degenerative diseases e.g. Alzheimer's disease and Pick  
CC disease and disorders involving heart. The 57242 nucleic acid and  
CC polypeptide are also useful for modulating adipocyte activity such as  
CC hyperplastic growth, hypertrophic growth or lipogenesis. The 57242 DNA is  
CC used in gene therapy. The present sequence is human 57242 protein  
XX  
SQ Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 5; Length 346;  
Best Local Similarity 100.0%; Pred. No. 7.4e-199;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
QY 61 DFLMIMCLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVELTVVAADRYKVVHP 120  
DB 61 DFLMIMCLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVELTVVAADRYKVVHP 120  
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCEFSIMESANGWHIM 180  
DB 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCEFSIMESANGWHIM 180  
QY 181 FOLEFPMPLGIILFCSEFKIWSLRRQQLARQARKKATRTFMVAIVFITCYLPSVSAR 240  
DB 181 FOLEFPMPLGIILFCSEFKIWSLRRQQLARQARKKATRTFMVAIVFITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPFKFNKIKICSLKPK 300  
DB 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPFKFNKIKICSLKPK 300  
QY 301 QPGHSKTORPEEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346  
DB 301 QPGHSKTORPEEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 13

ABP81747

ID ABP81747 standard; protein; 346 AA.

XX

AC ABP81747;

XX 04-MAR-2003 (first entry)

XX Human chemokine receptor FKSG80/GPR81 protein SEQ ID NO:668.

DE

XX G protein-coupled receptor; GPCR; antigenic peptide; gene therapy;  
KW G protein-coupled receptor modulator; antibody; immune-related disease;  
KW growth-related disease; cell regeneration-related disease; AIDS; cancer;  
KW immunological-related cell proliferative disease; autoimmune disease;  
KW Alzheimer's disease; atherosclerosis; infection; osteoarthritis; allergy;  
KW osteoporosis; cardiomyopathy; inflammation; Crohn's disease; diabetes;  
KW graft versus host disease; Parkinson's disease; multiple sclerosis; pain;  
KW psoriasis; anxiety; depression; schizophrenia; dementia; memory loss;  
KW mental retardation; epilepsy; asthma; tuberculosis; rheumatoid arthritis; trauma;  
KW ulcer.

XX Homo sapiens.

OS

XX WO200261087-A2.

PN

XX 08-AUG-2002.

PD

XX 19-DEC-2001; 2001WO-US050107.

XX

PR 19-DEC-2000; 2000US-0257144P.  
XX (LIFE-) LIFESPAN BIOSCIENCES INC.  
XX Burmer GC, Roush CL, Brown JP;  
XX WPI; 2003-046718/04.  
XX N-PSDB; ABZ42592.  
XX New isolated antigenic peptides e.g., for G protein-coupled receptors  
PT (GPCR), useful for diagnosing and designing drugs for treating conditions  
PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or  
PT autoimmune diseases.  
XX Disclosure; Fig 1; 523pp; English.  
PS The present invention describes antigenic peptides (I) comprising: (a)  
XX one of 1601 sequences (see ABP82019 to ABP83619) of 12-24 amino  
CC acids. Also described: (1) an assay for the detection of a particular G  
CC protein-coupled receptor (GPCR) or a candidate polypeptide in a sample;  
CC and (2) an isolated antibody having high specificity and high affinity or  
CC avidity for a particular GPCR. (I) can be used as GPCR modulators and in  
CC gene therapy. The antigenic peptides for GPCRs are useful in detecting an  
CC antibody against a particular GPCR, and in the production of specific  
CC antibodies. The peptides and antibodies are also useful for detecting the  
CC presence or absence of corresponding GPCRs. The antigenic peptides for  
CC GPCRs and antibodies are useful for diagnosing and designing drugs for  
CC treating immune-related diseases, growth-related diseases, cell  
CC regeneration-related disease, immunological-related cell proliferative  
CC diseases, or autoimmune diseases, e.g. AIDS, Alzheimer's disease,  
CC atherosclerosis, bacterial, fungal, protozoan or viral infections,  
CC osteoarthritis, osteoporosis, cancer, cardiomyopathy, chronic and acute  
CC inflammation, allergies, Crohn's disease, diabetes, graft versus host  
CC disease, Parkinson's disease, multiple sclerosis, pain, psoriasis,  
CC anxiety, depression, schizophrenia, dementia, mental retardation, memory  
CC loss, epilepsy, asthma, tuberculosis, obesity, nausea, hypertension,  
CC hypotension, renal disorders, rheumatoid arthritis, trauma, ulcers, or  
CC any other disorder in which GPCRs are involved. The antibodies may be  
CC used in immunoassays and immunodiagnosis. ABZ42523 to ABZ42869 encode  
CC GPCR proteins given in ABP81675 to ABP82018, which are used in the  
XX exemplification of the present invention  
SQ Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 6; Length 346;

Best Local Similarity 100.0%; Pred. No. 7.4e-199;

Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
QY 61 DFLMIMCLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVELTVVAADRYKVVHP 120  
DB 61 DFLMIMCLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVELTVVAADRYKVVHP 120  
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCEFSIMESANGWHIM 180  
DB 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCEFSIMESANGWHIM 180  
QY 181 FOLEFPMPLGIILFCSEFKIWSLRRQQLARQARKKATRTFMVAIVFITCYLPSVSAR 240  
DB 181 FOLEFPMPLGIILFCSEFKIWSLRRQQLARQARKKATRTFMVAIVFITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPFKFNKIKICSLKPK 300  
DB 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPFKFNKIKICSLKPK 300  
QY 301 QPGHSKTORPEEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346  
DB 301 QPGHSKTORPEEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346



```
RESULT 14
ABP56751
ID ABP56751 standard; protein; 346 AA.
XX
AC ABP56751;
XX
DT 31-MAR-2003 (first entry)
XX
DE Human GAVE3 protein SEQ ID NO:2.
XX
KW Human; GAVE3; G protein-coupled receptor; GPCR; antiinflammatory;
KW antiasthmatic; antirheumatic; antiarthritic; inflammatory disorder;
KW asthma; chronic obstructive pulmonary disease; rheumatoid arthritis;
KW chromosome 12.
XX
OS Homo sapiens.
XX
PN WO2003000846-A2.
XX
PD 03-JAN-2003.
XX
PF 21-JUN-2002; 2002WO-US019490.
XX
PR 22-JUN-2001; 2001US-00886041.
XX
PA (AVET ) AVENTIS PHARM INC.
XX
PI Xia T, Ni D, Eisingdrello H, Ardatti A, Minnich A, Jupp R;
XX WPI; 2003-184040/18.
DR N-PSDB; AB222648.
XX
XX New GAVE3 nucleic acid and polypeptide, for preventing or treating a
PT disorder associated with aberrant GAVE3 expression or activity, e.g.
PT inflammatory disease, asthma, chronic obstructive pulmonary disease or
PT rheumatoid arthritis.
XX
XX Claim 9; Fig'2; 90pp; English.
XX
XX The present sequence represents a human G protein-coupled receptor
CC (GPCR), designated GAVE3. GAVE3 is located on human chromosome 12. GAVE3
CC has antiinflammatory, antiasthmatic, antirheumatic and antiarthritic
CC activities. GAVE3 nucleic acids, polypeptides, agonists and antagonists
CC can be used for preventing or treating a disorder associated with
CC aberrant GAVE3 expression or activity, e.g. inflammatory disorders such
CC as asthma, chronic obstructive pulmonary disease or rheumatoid arthritis.
CC The nucleic acids and polypeptides can also be useful for identifying
CC modulators, i.e. candidate or test compounds, that bind to GAVE3 proteins
CC or have a stimulatory or inhibitory effect on GAVE3 expression or
CC activity. The nucleotide sequences can also be used for chromosomal
CC mapping, tissue typing or forensic biology. Host cells comprising GAVE3
CC can be used for producing non-human transgenic animals for studying the
CC function and/or activity of GAVE3, or for identifying and/or evaluating
CC modulators of GAVE3 activity
XX
XX Sequence 346 AA;
SQ
Query Match 100.0%; Score 1853; DB 6; Length 346;
Best Local Similarity 100.0%; Pred. No. 7.4e-199;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MYNSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSYVLFNLAVA 60
DB 1 MYNSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSYVLFNLAVA 60
QY 61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
DB 61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
QY 121 HAVNVTISTRVAGIVCTLWALVILGTVYVLLLENHLCVQETAVSCSFFIMESANGWHDIM 180
DB 121 HAVNVTISTRVAGIVCTLWALVILGTVYVLLLENHLCVQETAVSCSFFIMESANGWHDIM 180
```

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181 FOLEFFMPLGIIILFCSEFKIVMSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240
181 FOLEFFMPLGIIILFCSEFKIVMSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240
241 LYFLMTVPSSACDPSVHGALHITLSTYVNSMLDPLVYFSSPSPKFYNKLIKICSLKPK 300
241 LYFLMTVPSSACDPSVHGALHITLSTYVNSMLDPLVYFSSPSPKFYNKLIKICSLKPK 300
301 QFGHSKTQRPPEMPISNLGRSCISVANSFQSDGQMDPHIVEWH 346
301 QFGHSKTQRPPEMPISNLGRSCISVANSFQSDGQMDPHIVEWH 346
RESULT 15
AAO26511
ID AAO26511 standard; protein; 346 AA.
XX
AC AAO26511;
XX
DT 13-FEB-2003 (first entry)
XX
DE Human G-Protein Coupled Receptor protein.
XX
KW Anorectic; antidiabetic; antilipaemic; antiasthmatic; antiinflammatory;
KW antiallergic; antianginal; nephrotropic; hepatotropic; immunosuppressive;
KW virucide; G-Protein-agonist; G-Protein-antagonist; dyslipidaemia; GPCR;
KW G-Protein Coupled Receptor; obesity; diabetes; asthma; bronchitis;
KW allergy; angina; glomerulonephritis; hepatitis; allograft rejection;
KW human.
XX
OS Homo sapiens.
XX
PN WO200283736-A2.
XX
PD 24-OCT-2002.
XX
PF 14-FEB-2002; 2002WO-US004397.
XX
PR 14-FEB-2001; 2001US-0269040P.
XX
PA (AMGE-) AMGEN INC.
XX
PI Elliott SG, Rogers N, Busse LA;
XX WPI; 2003-075524/07.
DR N-PSDB; AAL53846.
XX
XX New GPCR polypeptide and encoding nucleic acid molecule, useful for
PT diagnosis, treatment and/or prevention of diseases associated with GPCR
PT polypeptides, such as obesity, diabetes, asthma, allergies, angina and
PT hepatitis.
XX
XX Claim 13; Fig 1; 122pp; English.
XX
XX The invention relates to a novel isolated G-Protein Coupled Receptor
CC (GPCR) protein. The methods and compositions of the present invention are
CC useful for diagnosis, treatment, amelioration and/or prevention of
CC diseases associated with G-Protein Coupled Receptor (GPCR) polypeptides,
CC such as obesity, diabetes, dyslipidaemia, asthma, bronchitis, allergies,
CC angina, glomerulonephritis, hepatitis and allograft rejection. This
CC sequence represents the human GPCR protein of the invention
XX
XX Sequence 346 AA;
SQ
Query Match 100.0%; Score 1853; DB 6; Length 346;
Best Local Similarity 100.0%; Pred. No. 7.4e-199;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MYNSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSYVLFNLAVA 60
DB 1 MYNSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSYVLFNLAVA 60
QY 61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
```

Db	61	DLFLMICLPFFTDYYLRRHWAFGDIPCRVGLFTLANNRAGSIVFLTVAADRYFKVHP	120
Qy	121	HHAVNTISTRVAAGIVCTLWALVIILGTGYLLLENHLCVQETA VSCESFIMESANGWHDIM	180
Db	121	HHAVNTISTRVAAGIVCTLWALVIILGTGYLLLENHLCVQETA VSCESFIMESANGWHDIM	180
Qy	181	FOLFEFFMPLGIILFCSFKIVSLRRRQOLARQARMKKATRFIMVVAIVFITCYLPESVSAR	240
Db	181	FOLFEFFMPLGIILFCSFKIVSLRRRQOLARQARMKKATRFIMVVAIVFITCYLPESVSAR	240
Qy	241	LYFLTWTVPSSACDPVHGALHITLSFTYNNSMLDPLVYFSPSPPKFYNNKLKICSLRKP	300
Db	241	LYFLTWTVPSSACDPVHGALHITLSFTYNNSMLDPLVYFSPSPPKFYNNKLKICSLRKP	300
Qy	301	QPGHSKTORPREMPTISNLGRASCISVANSFQSDGQMDPHIVEWH	346
Db	301	QPGHSKTORPREMPTISNLGRASCISVANSFQSDGQMDPHIVEWH	346

Search completed: August 30, 2005, 18:30:49  
Job time : 169 secs



GenCore version 5.1.1.6  
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OM protein - protein search, using sw model

Run on: August 30, 2005, 18:24:37 ; Search time 41 Seconds  
(without alignments)  
811.976 Million cell updates/sec

Title: US-10-719-692-6  
Perfect score: 1853  
Sequence: 1 MYNGSCCRIEGDTISQVMP.....ANSFQSQDQWDPHIVEWH 346

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues  
Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : PIR 79:\*  
1: pir1:\*  
2: pir2:\*  
3: pir3:\*  
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	880.5	47.5	387	2 I69202	G protein-coupled
2	364	19.6	362	2 S33733	G protein-coupled
3	362.5	19.6	373	2 JC4162	P2Y receptor - bov
4	354	19.1	373	2 JC4737	G protein-coupled
5	343.5	18.5	370	2 JC5549	heptahelical p2ys-
6	339	18.3	308	2 I50241	G protein-coupled
7	324	17.5	344	2 T09508	intron 17 purinerg
8	320	17.3	373	2 A47556	ATP receptor P2u -
9	310.5	16.8	420	2 I51667	thrombin receptor
10	309.5	16.7	363	2 I57940	somatostatin recep
11	307	16.6	391	2 C41795	somatostatin recep
12	305.5	16.5	391	2 A41795	somatostatin recep
13	305.5	16.5	391	2 A3297	somatostatin recep
14	304.5	16.4	359	2 S15403	angiotensin II rec
15	302.5	16.3	369	2 B41795	somatostatin recep
16	302	16.3	364	2 JQ1488	bradykinin B2 rece
17	302	16.3	399	2 I48705	proteinase activat
18	300.5	16.2	369	2 D41795	somatostatin recep
19	300.5	16.2	369	2 A45291	somatostatin recep
20	300	16.2	328	2 I55450	G protein-coupled
21	300	16.2	384	2 A47249	brain-specific som
22	300	16.2	428	2 A44021	somatostatin recep
23	299.5	16.2	369	2 JC2083	somatostatin recep
24	299	16.1	388	2 JN0605	somatostatin recep
25	298.5	16.1	418	2 A46226	somatostatin recep
26	298.5	16.1	432	2 A43448	thrombin receptor
27	298	16.1	428	2 S30508	probable G protein
28	297	16.0	397	2 S66518	proteinase-activat
29	296.5	16.0	346	2 S29248	somatostatin recep

RESULT 1  
I69202  
G protein-coupled receptor HM74 - human  
C:Species: Homo sapiens (man)  
C>Date: 12-Aug-1996 #sequence\_revision 12-Aug-1996 #text\_change 09-Jul-2004  
C:Accession: I69202  
R:Nomura, H.; Nielsen, B.W.; Matsushima, K.  
Int. Immunol. 5, 1239-1249, 1993  
A>Title: Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte chemokine (C-C) re  
A:Reference number: 154751; MUID:94092629; PMID:7505609  
A:Accession: I69202  
A>Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: mRNA  
A:Residues: 1-387 <RES>  
A:Cross-references: UNIPROT:P49019; GB:D10923; NID:g219866; PIDN:BAA01721.1; PID:g219867  
C:Genetics:  
A:Gene: HM74  
C:Superfamily: G protein-coupled receptor 4

Query Match	47.5%	Score	880.5	DB	2	Length	387
Best Local Similarity	52.2%	Pred. No.	3.2e-73				
Matches	178	Conservative	49	Mismatches	107	Indels	7
Gaps	4						
QY	5	SCCRIEGDTISQVMP	LLIIVAFVLGALGNVAGLCGFCPHMKTKPSTVYLFNLAVADFL	64			
Db	17	NCCVFRDDFI	AKVLPVLGLEFIFGLLGNLALWIFCFHLKSWKSSRIFLFNLAVADFL	76			
QY	65	MICLPFRDTYYLRRRHMAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYKVVHPHHA	124				
Db	77	IICLPFVMDYYVRRSDWNFGDIPCLRLVLFMFAMNRQGSIIPLTVVAVDRYPRVHPHHA	136				
QY	125	NTISTRVAGIVCTLWALVILGTVYLLNHLVCQETAVSCSFSTMESANGHWDIMFQLE	184				
Db	137	NKISNWTAAIISCLLWITVGLTVHLLKKLLIQNGPANVCISFSICHTFRWHEAMFLL	196				
QY	185	FPMPLGIILFCSPFKIVWSLRRLRQOLARQARKKATFTFMVAIVFITCYLPSVSARLYFL	244				
Db	197	FLPLGIILFCSPKIVWSLRRLRQOLARQARKKATFTFMVAIVFITCYLPSVSARLYFL	255				
QY	245	WTVPSA--CD--PSVHGALHITLSFTYMSMLDPLVYFSSPSFPFKYKLCISKLP	299				
Db	256	WLLHSTGTCQNEVYSVDLAFITLSTFYMSMLDPLVYFSSPSFPFKYKLCISKLP	315				
QY	300	KQPGHSTKQRPPEMPISNLGRSCISVANSFQSQDQWD	340				
Db	316	KWTGPDNNRSTSVELTGDPNKT-RGAPEALMANSGEWPSP	355				

RESULT 2  
S33733  
G protein-coupled receptor - chicken  
C:Species: Gallus gallus (chicken)

angiotensin II rec  
P-2U nucleotide re  
somatostatin recep  
delta opioid recep  
G protein-coupled  
G protein-coupled  
angiotensin II rec  
angiotensin II rec  
delta opioid recep  
angiotensin II rec  
chemokine (C-C) re  
delta opioid recep  
G protein-coupled  
probable chemotr  
angiotensin II rec  
allatostatin recep

CjDate: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 09-Jul-2004  
CjAccession: S33733  
RjWebb, T.E.; Simon, J.; Krishek, B.J.; Bateson, A.N.; Smart, T.G.; King, B.F.; Burnstock  
FBES Lett. 324, 219-225, 1993  
A>Title: Cloning and functional expression of a brain G-protein-coupled ATP receptor.  
AjReference number: S33733; MUID:93285340; PMID:8508924  
AjAccession: S33733  
AjStatus: preliminary  
AjMolecule type: mRNA  
AjResidues: 1-362 <WEB>  
AjCross-references: UNIPROT:P34996; EMBL:X73268; NID:G9395084; PIDN:CAA51716.1; PID:G93950  
CjSuperfamily: ATP receptor P2u  
CjKeywords: G protein-coupled receptor; transmembrane protein

Query Match 19.6%; Score 364; DB 2; Length 362;  
Best Local Similarity 29.1%; Pred. No. 9.5e-26;  
Matches 95; Conservative 58; Mismatches 130; Indels 44; Gaps 7;

QY 18 MPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVADFLLMICLPFRDTDYLR 77  
DB 43 LFTVILVFIITGLGNSVAIWMFVHMPWISGYMNFNLALADFLYVLTLPALIFYFN 102  
QY 78 RRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHPHNAVNTISTRVAAGIVC 137  
DB 103 KTDWIFGDMCKLQRFIFHVNLYSGILFLTCISVHRVTGVVHPLKSLGRLKKNNAVYSS 162  
QY 138 TLWALVIL-----GTVYLLENHLCVQSTA-----VSCSFIMESANGWHD 178  
DB 163 LVMLVAVIAPIFLPYSGTGVRRNKTITCYDTTADYLRSYFYVMCTTVFM----- 214  
QY 179 IMFQLEFFPLGIILFCSPKIVMSLRRRQOLARQARKKATRFIMVAIVFITCYLP--- 235  
DB 215 -----FCIPFVILGCYGLIVKALYK-DLDNSPLRRKSIYLVILTVFAVSVLPFHV 267  
QY 236 ----SVSARLYFLWTPVSSACDPSVHGALHITLSFTYVNSMLDPLVYFSSPFPKFNK 291  
DB 268 MKTLNLRALDF-QTPQCAFNDKVVATYQVTRGLASLNSCVDPILYFLAGDTFRRLSR 326  
QY 292 LKISLKPKQGHKTQRPPEEMPISNL 318  
DB 327 ATRKSRSRSEP--NVQSKSEENTNLIL 351

RESULT 3  
JC4162  
P2Y receptor - bovine  
CjSpecies: Bos primigenius taurus (cattle)  
CjDate: 12-Oct-1995 #sequence\_revision 10-Nov-1995 #text\_change 09-Jul-2004  
CjAccession: JC4162  
RjHenderson, D.J.; Elliot, D.G.; Smith, G.M.; Webb, T.E.; Dainty, I.A.  
Biochem. Biophys. Res. Commun. 212, 648-656, 1995  
A>Title: Cloning and characterisation of a bovine P2Y receptor.  
AjReference number: JC4162; MUID:95352058; PMID:7626079  
AjAccession: JC4162  
AjMolecule type: mRNA  
AjResidues: 1-373 <HEN>  
AjCross-references: UNIPROT:P48042; EMBL:X87628; NID:G1032484; PIDN:CAA60958.1; PID:G103  
AjExperimental source: aortic endothelial cell  
CjGenetics:  
AjGene: bopv2Y  
CjSuperfamily: ATP receptor P2u  
CjKeywords: glycoprotein; phosphoprotein; receptor; transmembrane protein  
Fj52-77/Domain: transmembrane #status predicted <TM1>  
Fj88-111/Domain: transmembrane #status predicted <TM2>  
Fj124-150/Domain: transmembrane #status predicted <TM3>  
Fj171-191/Domain: transmembrane #status predicted <TM4>  
Fj214-237/Domain: transmembrane #status predicted <TM5>  
Fj261-282/Domain: transmembrane #status predicted <TM6>  
Fj305-328/Domain: transmembrane #status predicted <TM7>  
Fj11,27,113,197/Binding site: carbonylrate (Asn) (covalent) #status predicted  
Fj258/Binding site: phosphate (Ser) (covalent) (by protein kinase A) #status predicted

Query Match 19.6%; Score 362.5; DB 2; Length 373;

Best Local Similarity 27.5%; Pred. No. 1.3e-25;  
Matches 92; Conservative 68; Mismatches 140; Indels 35; Gaps 7;

QY 18 MPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVADFLLMICLPFRDTDYLR 77  
DB 54 LPAYVILVFIITGLGNSVAIWMFVHMPWISGYMNFNLALADFLYVLTLPALIFYFN 113  
QY 78 RRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHPHNAVNTISTRVAAGIVC 137  
DB 114 KTDWIFGDMCKLQRFIFHVNLYSGILFLTCISAHRSVGVVYPLKSLGRLKKNNAVYLSV 173  
QY 138 TLWALVILGTVYLLLENHLCVQET-AVSC-----ESFIMESANGWHDIMFOLEPFM 187  
DB 174 LVMLIVVVGISPIFLPYSGTGIKKNKTITCYDTTSDYLRSYFIYSM-----CTTVAMFCV 228  
QY 188 PLGIILFCSPKIVMSLRRRQOLARQARKKATRFIMVAIVFITCYLP-----SVSAR 240  
DB 229 FLVLILGCYGLIVKALYK-DLDNSPLRRKSIYLVILTVFAVSVIFPHVMKTNLRAR 287  
QY 241 LVFLWTPVSSACDPSVHGALHITLSFTYVNSMLDPLVYFSSPFPKFNKIKCSLKP 300  
DB 288 LDF-QTPQCAFNDKVVATYQVTRGLASLNSCVDPILYFLAGDTFRRLSR----- 337  
QY 301 QPCHSKTQRPPEEMPISNLGRSCISVANSFQSQSD 335  
DB 338 --ATRKASRRSEANLQSKSEDTNLILSEFKQNGD 370

RESULT 4  
JC4737  
G protein-coupled receptor P2Y1 - human  
NjAlternate names: P2Y1 purinergic receptor; P2Y1 purinoceptor  
CjSpecies: Homo sapiens (man)  
CjDate: 10-May-1996 #sequence\_revision 16-Aug-1996 #text\_change 09-Jul-2004  
CjAccession: JC4737; JC4615; S54253  
RjJanssens, R.; Communi, D.; Pirotton, S.; Samson, M.; Parmentier, M.; Boeynaems, J.M.  
Biochem. Biophys. Res. Commun. 221, 588-593, 1996  
A>Title: Cloning and tissue distribution of the human P2Y1 receptor.  
AjReference number: JC4737; MUID:96205320; PMID:8630005  
AjAccession: JC4737  
AjMolecule type: DNA  
AjResidues: 1-373 <JAN>  
AjCross-references: UNIPROT:P47900; GB:S81950; NID:G1839438; PIDN:AAB47091.1; PID:G18394  
RjAyyanathan, K.; Webb, T.E.; Sandhu, A.K.; Athwal, R.S.; Barnard, E.A.; Kunapuli, S.P.  
Biochem. Biophys. Res. Commun. 218, 783-788, 1996  
A>Title: Cloning and chromosomal localization of the human P2Y1 purinoceptor.  
AjReference number: JC4615; MUID:96158962; PMID:8579591  
AjAccession: JC4615  
AjMolecule type: mRNA  
AjResidues: 1-373 <AYY>  
AjCross-references: GB:U42029; NID:G1147730; PIDN:AAA97872.1; PID:G1147731  
AjExperimental source: erythro leukemia cells  
RjLeon, C.; Vial, C.; Cazenave, J.; Gachet, C.  
submitted to the EMBL Data Library, May 1995  
A>Description: Cloning of a human putative P2Y receptor.  
AjReference number: S54253  
AjAccession: S54253  
AjStatus: preliminary  
AjMolecule type: mRNA  
AjResidues: 1-137,139-373 <LEO>  
AjCross-references: EMBL:249205; NID:G798835; PIDN:CAA89066.1; PID:G798836  
CjComment: This receptor belongs to a family of G protein-coupled receptors. It responds  
CjGenetics:  
AjGene: p2Y1; GDB:P2RY1  
AjCross-references: GDB:677125; OMIM:601167  
AjMap position: 3pter-3qter  
CjSuperfamily: ATP receptor P2u  
CjKeywords: G protein-coupled receptor; glycoprotein; phosphoprotein; transmembrane prot  
Fj52-77/Domain: transmembrane #status predicted <TM1>  
Fj88-111/Domain: transmembrane #status predicted <TM2>  
Fj124-152/Domain: transmembrane #status predicted <TM3>  
Fj171-191/Domain: transmembrane #status predicted <TM4>  
Fj214-237/Domain: transmembrane #status predicted <TM5>





A;Reference number: I57940; MUID:93125499; PMID:1362243  
A;Accession: I57940  
A;Status: preliminary; translated from GB/EMBL/DBJ  
A;Molecule type: mRNA  
A;Residues: 1-363 <OCA1>  
A;Cross-references: UNIPROT:P30938; GB:I04535; NID:g409238; PIDN:AAAI7029.1; PID:g409238  
R;O'Carroll, A.M.; Lolait, S.J.; Konig, M.; Mahan, L.C.  
Mol. Pharmacol. 44, 1278, 1993  
A;Title: Molecular cloning and expression of a pituitary somatostatin receptor with pref  
A;Reference number: I57949; MUID:94088493; PMID:8264565  
A;Accession: I57949  
A;Status: preliminary; translated from GB/EMBL/DBJ  
A;Molecule type: mRNA  
A;Residues: 341-363 <OCA2>  
A;Cross-references: GB:S67370; NID:g455947; PIDN:AAB29371.1; PID:g455948  
A;Experimental source: pituitary  
R;Penetta, R.; Greenwood, M.; Patel, Y.C.  
submitted to the EMBL Data Library, August 1993  
A;Description: Correction of the nucleotide and amino acid sequence of the rat somatost  
A;Reference number: S39244  
A;Accession: S39244  
A;Molecule type: mRNA  
A;Residues: 309-363 <PEN>  
A;Cross-references: EMBL:X74828; NID:g433911; PIDN:CRA52825.1; PID:g433912  
A;Gene: SSTR5  
C;Genetics:  
C;Superfamily: vertebrate rhodopsin

Query Match 16.7%; Score 309.5; DB 2; Length 363;  
Best Local Similarity 29.6%; Pred. No. 9.8e-21;  
Matches 96; Conservative 53; Mismatches 148; Indels 27; Gaps 9;

QY 17 VMPPLLIVAVLGLGALGVALCGFCFHMKTWKPSTVYLFNLAVADFLMLICLPFRDYYL 76  
Db 39 LVPVLVLLVCTVGLSGNTIVYVLRHAKMTVNTVILNLAVADVFLMLGLPFLATQNA 98  
QY 77 RRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHPHNAVNTISTRVAAGIV 136  
Db 99 VVSVPFGSLCLVLTLDGINTQFTSIFCLWMSVDRLAVVHPLSARWRPRVAKMAS 158  
QY 137 CTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIMFO----LSEFFMPLGII 192  
Db 159 AAVWVPSLLMSPLLV--FADVQEGMGTCNLSPPEPVGLWGAATFYTSVLGFFGPLVI 216  
QY 193 LFCSFIVNSLR---RQQLARQARK-KATRIMVVAIVFICLPSVSARLYFL-WTV 247  
Db 217 CLCYLLIVVKVKAAGNRVSSRRSEPKVTRMVVVVVLVFGCWLPPFFIVINVLAFTL 276  
QY 248 PSSACDPSVHGALHITLSFTYMSMLDPLVYFSSPSPFKYKLIKIC-----SLKP 299  
Db 277 PE---EPTSGAGLYFFVVVLSYNSCANPLLYGFLSDNFRQSPFKV-LCLRRGVGMEDADA 332  
QY 300 KQFGHSKTORPEMPISNLGRRSC 323  
Db 333 IEPRPDKSGRPQ---ATLPTRSC 352

RESULT 11  
C41795  
somatostatin receptor 1 - mouse  
C;Species: Mus musculus (house mouse)  
C;Date: 30-Sep-1993 #sequence\_revision 31-Dec-1993 #text\_change 09-Jul-2004  
C;Accession: C41795  
R;Yamada, Y.; Post, S.R.; Wang, K.; Tager, H.S.; Bell, G.I.; Seino, S.  
Proc. Natl. Acad. Sci. U.S.A. 89, 251-255, 1992  
A;Title: Cloning and functional characterization of a family of human and mouse somatost  
A;Reference number: A41795; MUID:92108031; PMID:1346068  
A;Accession: C41795  
A;Status: nucleic acid sequence not shown  
A;Molecule type: DNA  
A;Residues: 1-391 <YAM>  
A;Cross-references: UNIPROT:P30873; GB:M81831; NID:g201058; PIDN:AAA58255.1; PID:g201058  
C;Superfamily: vertebrate rhodopsin

C;Keywords: G protein-coupled receptor; hormone receptor; transmembrane protein

Query Match 16.6%; Score 307; DB 2; Length 391;  
Best Local Similarity 25.7%; Pred. No. 1.8e-20;  
Matches 85; Conservative 62; Mismatches 130; Indels 54; Gaps 9;

QY 4 GSCCRIGD-----TISQVMPPLLIIVAFV-----LQALNGVALCGF 40  
Db 24 GACSRGPGSGAAGDMEEFERNASQNTLSEGGQSAILISFIYSVVCVLGLCGNSMVIYVI 83  
QY 41 CFPMKTKPSTVYLFNLAVADFLMLICLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRA 100  
Db 84 LRYAKMTATNIYIILNLAIADLLMSVFLVTSYL-LRHWPFGALLCLRLVLSVDVAVNF 142  
QY 101 GSIVELTVVAADRYFKVHPHNAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCV-Q 159  
Db 143 TSIYCLTVLSVDYVAVVHPHPIKAAVRRPTVAKVNVGLVWVLSLLVILPIVVFSTRSAA 202  
QY 160 ETAVSCSFIMESANGWHD----IMFQLEFFMPLGIIILFC-----SFKIIVNSLR 204  
Db 203 DGTVACNMLMPEPAQRWLVGVFLYTLFMGLFLPVGAICLCYVLIITAKRMVVALKAGWQOR 262  
QY 205 RQQLARQARK-KATRIMVVAIVFICLPSVSARLYFLWTVPSACDPSVHGALHITL 264  
Db 263 KRSE-----RKITLMVMVMVVFICMPPFYVQVLNVVFAEQDQAT-----VSQLSV 309  
QY 265 SPTYMNSMLDPLVYFSSPSPFKYKLIKIC 295  
Db 310 ILGYNSCANPLLYGFLSDNFKRSFQRI-LC 339

RESULT 12  
A41795  
somatostatin receptor 1 - human  
C;Species: Homo sapiens (man)  
C;Date: 31-Dec-1993 #sequence\_revision 31-Dec-1993 #text\_change 09-Jul-2004  
C;Accession: A41795  
R;Yamada, Y.; Post, S.R.; Wang, K.; Tager, H.S.; Bell, G.I.; Seino, S.  
Proc. Natl. Acad. Sci. U.S.A. 89, 251-255, 1992  
A;Title: Cloning and functional characterization of a family of human and mouse somatost  
A;Reference number: A41795; MUID:92108031; PMID:1346068  
A;Accession: A41795  
A;Molecule type: DNA  
A;Residues: 1-391 <YAM>  
A;Cross-references: UNIPROT:P30872; GB:M81829; NID:g307433; PIDN:AAA58247.1; PID:g307433  
A;Note: sequence extracted from NCBI backbone (NCBIN:74767, NCBIP:74768)  
C;Genetics:  
A;Gene: GDB:SSTR1  
A;Cross-references: GDB:134185; OMIM:182451  
A;Map position: 14q13-14q13  
A;Intons: #status absent  
C;Superfamily: vertebrate rhodopsin  
C;Keywords: G protein-coupled receptor; glycoprotein; hormone receptor; lipoprotein; ph  
F;58-84/Domain: transmembrane #status predicted <TM1>  
F;95-120/Domain: transmembrane #status predicted <TM2>  
F;132-153/Domain: transmembrane #status predicted <TM3>  
F;173-195/Domain: transmembrane #status predicted <TM4>  
F;220-250/Domain: transmembrane #status predicted <TM5>  
F;269-296/Domain: transmembrane #status predicted <TM6>  
F;302-326/Domain: transmembrane #status predicted <TM7>  
F;4, 44, 48, 381/Binding site: carboxylate (Asn) (covalent) #status predicted  
F;130-208/Disulfide bonds: #status predicted  
F;172/Binding site: phosphate (Thr) (covalent) (by cAMP-dependent kinase) #status predi  
F;265/Binding site: phosphate (Ser) (covalent) (by cAMP-dependent kinase) #status predi  
F;339/Binding site: palmitate (Cys) (covalent) #status predicted

Query Match 16.5%; Score 305.5; DB 2; Length 391;  
Best Local Similarity 26.3%; Pred. No. 2.5e-20;  
Matches 81; Conservative 62; Mismatches 128; Indels 37; Gaps 8;

QY 10 EGDITISQVMPPLLIIVAFV-----LQALNGVALCGFCFHMKTWKPSTVYLFNLAVADFL 63  
Db 47 QNGTISEGGQSAILISFIYSVVCVLGLCGNSMVIYVILRYAKMTATNIYIILNLAIADSL 106

QY 64 LMICLPFRDYLLRRHHWAFGDI PCRVLGFTLAMNRAGSIVELTVVAADRYFKVHPHHA 123  
Db 107 LMLSVPFLVTSYL-LRHWPFGALLCRVLVSVDVAVNNFTSIYCLTVLSVDVRYVAVVHPPIKA 165  
QY 124 VNTISTRVAAGIVCTLMALVILGTVYLLLENHLCV-QETAVSCSFIMESANGMHD----- 178  
Db 166 ARYRRPTAKVNLGVWVLSLLVILPIVVFSTRTAANSOGTVACNMLMPEPAQRWLGVFL 225  
QY 179 IMFQLEFFMPLGIILFC-----SFKIVSLRRRQQLARQARMKKATRFIMVVAI 227  
Db 226 YTFLMGFLLPVGAICLCYLLIIAKMRMVALKAGWQQRKSE-----RKITLMVMVMVM 278  
QY 228 VFITCYLPSVSARLYFLWTVPSACDPSVHGALHITLSFTYNNMMLDPLVYFSSPSPPK 287  
Db 279 VFVICWMPFYVQLVNVPFAEQDDAT-----VSQLSVILGYANSKANPILYGLSDNFKR 332  
QY 288 FYNKLIKIC 295  
Db 333 SFQRI-LC 339  
RESULT 13  
A39297  
somatostatin receptor - rat  
N:Alternate names: probable G-protein-coupled receptor; SRIF receptor  
C:Species: Rattus norvegicus (Norway rat)  
C:Date: 03-Aug-1992 #sequence\_revision 03-Aug-1992 #text\_change 09-Jul-2004  
C:Accession: A39297; A45102; S20088  
R:Meyerhof, W.; Paust, H.J.; Schoenrock, C.; Richter, D.  
DNA Cell Biol. 10, 689-694, 1991  
A:Title: Cloning of a cDNA encoding a novel putative G-protein-coupled receptor expressed in rat brain  
A:Reference number: A39297; MUID:92096119; PMID:1661599  
A:Accession: A39297  
A:Molecule type: mRNA  
A:Residues: 1-391 <MEY>  
A:Cross-references: UNIPROT:P28646; GB:X62314; GB:X61630; NID:g56309; PIDN:CAA44193.1; EMBL:U00001  
A:Experimental source: brain  
A>Note: It is uncertain whether Met-1 is the initiator or whether translation is initiated at Met-2.  
J. Biol. Chem. 267, 21307-21312, 1992  
A:Title: Cloning and expression of a rat somatostatin receptor enriched in brain.  
A:Reference number: A45102; MUID:93016064; PMID:1400442  
A:Accession: A45102  
A>Status: preliminary; not compared with conceptual translation  
A:Molecule type: nucleic acid  
A:Residues: 1-391 <LII>  
A:Experimental source: brain  
A>Note: sequence extracted from NCBI backbone (NCBIP:116692)  
C:Superfamily: vertebrate rhodopsin  
C:Keywords: G protein-coupled receptor; glycoprotein; receptor; transmembrane protein  
Query Match 16.5%; Score 305.5; DB 2; Length 391;  
Best Local Similarity 26.3%; Pred. No. 2.5e-20;  
Matches 81; Conservative 62; Mismatches 128; Indels 37; Gaps 8;  
QY 10 EGDTSIQNPPILLIAFV-----LGALNGVALCGCFHMKTKPSTVYLFNLAVADPL 63  
Db 47 QNGTLSEGGSAISLISFYISVCLVGLCGNSMVIYILRYAKMTATNIYILNLAIDEL 106  
QY 64 LMICLPFRDYLLRRHHWAFGDI PCRVLGFTLAMNRAGSIVELTVVAADRYFKVHPHHA 123  
Db 107 LMLSVPFLVTSYL-LRHWPFGALLCRVLVSVDVAVNNFTSIYCLTVLSVDVRYVAVVHPPIKA 165  
QY 124 VNTISTRVAAGIVCTLMALVILGTVYLLLENHLCV-QETAVSCSFIMESANGMHD----- 178  
Db 166 ARYRRPTAKVNLGVWVLSLLVILPIVVFSTRTAANSOGTVACNMLMPEPAQRWLGVFL 225  
QY 179 IMFQLEFFMPLGIILFC-----SFKIVSLRRRQQLARQARMKKATRFIMVVAI 227  
Db 226 YTFLMGFLLPVGAICLCYLLIIAKMRMVALKAGWQQRKSE-----RKITLMVMVMVM 278  
QY 228 VFITCYLPSVSARLYFLWTVPSACDPSVHGALHITLSFTYNNMMLDPLVYFSSPSPPK 287

Db 279 VFVICWMPFYVQLVNVPFAEQDDAT-----VSQLSVILGYANSKANPILYGLSDNFKR 332  
QY 288 FYNKLIKIC 295  
Db 333 SFQRI-LC 339  
RESULT 14  
S15403  
angiotensin II receptor type 1 - bovine  
C:Species: Bos primigenius indicus x Bos primigenius taurus (cattle)  
C:Date: 19-Mar-1997 #sequence\_revision 19-Mar-1997 #text\_change 24-Nov-1999  
C:Accession: S15403  
R:Saeki, K.; Yamano, Y.; Bardhan, S.; Iwai, N.; Murray, J.J.; Hasegawa, M.; Matsuda, Y.  
Nature 351, 230-233, 1991  
A:Title: Cloning and expression of a complementary DNA encoding a bovine adrenal angiotensin II receptor type 1  
A:Reference number: S15403; MUID:91251900; PMID:2041569  
A:Accession: S15403  
A>Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-359 <SAS>  
A:Cross-references: GB:X62294; NID:g43; PIDN:CAA44182.1; PID:g44  
C:Superfamily: vertebrate rhodopsin  
Query Match 16.4%; Score 304.5; DB 2; Length 359;  
Best Local Similarity 24.9%; Pred. No. 2.8e-20;  
Matches 81; Conservative 68; Mismatches 143; Indels 33; Gaps 8;  
QY 17 VMPLLIIVAFVLGALNGVALCGCFHMKTKPSTVYLFNLAVADPLLMICLPFRDYLL 76  
Db 30 MIPTLYSIIFVVGIFGNSLVIVIVFYMKLTVASVFLNLALADLCFLLTPLWAVTA 89  
QY 77 RRRHWAFGDIPCRVGLFTLAMNRAGSIVELTVVAADRYFKVHPHHA VNTISTRVAAGIV 136  
Db 90 MEYRWPFNGNLYCKIASASVSFNLYASVFLLTCLSDRYLAIVHPMKS-RLRRTMLVAKVT 148  
QY 137 C-TLWALVILGTVYLL-ENHLCVQETAVSCSFIMESANGMHDIMFOLE-----FFMPL 189  
Db 149 CIIWLWLAGLASLPTIHRNVFFIENITITVCAPHYESQNSTLPVGLGLTKNIGLFLPFF 208  
QY 190 GIILFCSPKIVMSLRRRQQLARQARMKKATRFIMVVAIV--FITCYLP-----SVSARLYF 243  
Db 209 -LIILTSYLLWTKLKAYEIQKNPKRDKDIFKIILAIVLFFFSVWPHQITFTFMDVLIQ 267  
QY 244 LWTVPSSACDPSVHGALHITLSFTYNNMMLDPLVYFSSPSPPKPY----- 289  
Db 268 LGLIRDCKIEDIVDTAMPITICLAYFNCLNPLFYGLGKKFKKYFLQLQLLYIPPKAKSH 327  
QY 290 ---NKLKICSLKPKQPGHSTQRP 310  
Db 328 SNLSTKMSTLSYRPSSENGNSSTKKP 352

RESULT 15  
B41795  
somatostatin receptor 2 - human  
C:Species: Homo sapiens (man)  
C:Date: 31-Dec-1993 #sequence\_revision 31-Dec-1993 #text\_change 09-Jul-2004  
C:Accession: B41795  
R:Yamada, Y.; Post, S.R.; Wang, K.; Tager, H.S.; Bell, G.I.; Seino, S.  
Proc. Natl. Acad. Sci. U.S.A. 89, 251-255, 1992  
A:Title: Cloning and functional characterization of a family of human and mouse somatostatin receptors  
A:Reference number: A41795; MUID:92108031; PMID:1346068  
A:Accession: B41795  
A:Molecule type: DNA  
A:Residues: 1-369 <YAM>  
A:Cross-references: UNIPROT:P30874; GB:M81830; NID:g307435; PIDN:AAA58248.1; PID:g307436  
A>Note: sequence extracted from NCBI backbone (NCBIN:74769, NCBIP:74770)  
C:Genetics:  
A:Gene: GDB:SSTR2  
A:Cross-references: GDB:134186; OMIM:182452  
A:Map position: 17q24-17q24



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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 30, 2005, 18:25:17 ; Search time 43 Seconds  
(without alignments)  
600.665 Million cell updates/sec

Title: US-10-719-692-6  
Perfect score: 1853  
Sequence: 1 MTNGSCCRIGDTISQVMP...ANFSQSQDQWDPHVEMH 346

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/iaa/5A COMB.pep:\*  
2: /cgn2\_6/prodata/1/iaa/5B COMB.pep:\*  
3: /cgn2\_6/prodata/1/iaa/6A COMB.pep:\*  
4: /cgn2\_6/prodata/1/iaa/6B COMB.pep:\*  
5: /cgn2\_6/prodata/1/iaa/PCTUS COMB.pep:\*  
6: /cgn2\_6/prodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	881.5	47.6	387	4	US-09-170-496D-222 Sequence 222, App
2	880.5	47.5	387	4	US-09-170-496D-108 Sequence 108, App
3	880.5	47.5	387	4	US-09-944-807-21 Sequence 21, App
4	529	28.5	423	2	US-08-955-713-2 Sequence 2, App
5	510	27.5	476	2	US-08-955-713-4 Sequence 4, App
6	451.5	24.4	319	3	US-09-130-749-2 Sequence 2, App
7	451.5	24.4	319	3	US-09-130-749-2 Sequence 2, App
8	448.5	24.2	319	4	US-09-170-496D-60 Sequence 60, App
9	448.5	24.2	319	4	US-09-170-496D-196 Sequence 196, App
10	371	20.0	362	3	US-08-513-974B-374 Sequence 374, App
11	362.5	19.6	373	2	US-08-559-524B-4 Sequence 4, App
12	362.5	19.6	373	3	US-08-749-707-4 Sequence 4, App
13	362.5	19.6	373	4	US-09-947-922-4 Sequence 4, App
14	361.5	19.5	346	4	US-09-585-876-2 Sequence 2, App
15	354	19.1	373	4	US-09-745-842-14 Sequence 14, App
16	346.5	18.7	370	3	US-08-781-250-2 Sequence 2, App
17	336	18.1	339	1	US-08-153-848-44 Sequence 44, App
18	336	18.1	339	2	US-08-812-871-3 Sequence 3, App
19	336	18.1	339	3	US-09-299-843A-44 Sequence 44, App
20	336	18.1	339	3	US-09-088-337B-44 Sequence 44, App
21	336	18.1	339	4	US-09-170-496D-32 Sequence 32, App
22	336	18.1	339	5	PCT-US93-11153-44 Sequence 44, App
23	336	18.1	339	5	PCT-US95-07180-2 Sequence 2, App
24	335	18.1	339	4	US-09-170-496D-182 Sequence 182, App
25	328.5	17.7	302	2	US-08-467-948A-30 Sequence 30, App
26	328.5	17.7	302	3	US-08-467-948A-30 Sequence 30, App
27	327	17.6	309	3	US-09-422-869-20 Sequence 20, App

28	325	17.5	344	2	US-08-467-948A-8	Sequence 8, Appli
29	325	17.5	344	3	US-08-467-947A-8	Sequence 8, Appli
30	315.5	17.0	374	4	US-09-102-710B-3	Sequence 3, Appli
31	314	16.9	373	3	US-08-513-974B-373	Sequence 373, App
32	308	16.6	325	1	US-08-118-270-51	Sequence 51, Appl
33	308	16.6	325	5	PCT-US93-08528-51	Sequence 51, Appl
34	307	16.6	391	1	US-07-816-283-4	Sequence 4, Appli
35	307	16.6	391	1	US-08-417-103-4	Sequence 4, Appli
36	307	16.6	395	1	US-08-097-938-5	Sequence 5, Appli
37	307	16.6	395	1	US-08-476-000-5	Sequence 5, Appli
38	307	16.6	395	1	US-08-472-840-5	Sequence 5, Appli
39	307	16.6	395	2	US-08-476-976-5	Sequence 5, Appli
40	307	16.6	395	3	US-08-474-410-5	Sequence 5, Appli
41	306	16.5	398	1	US-08-097-938-6	Sequence 6, Appli
42	306	16.5	398	1	US-08-476-000-6	Sequence 6, Appli
43	306	16.5	398	2	US-08-472-840-6	Sequence 6, Appli
44	306	16.5	398	2	US-08-476-976-6	Sequence 6, Appli
45	306	16.5	398	3	US-08-474-410-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1

US-09-170-496D-222  
; Sequence 222, Application US/09170496D  
; Patent No. 6555339  
; GENERAL INFORMATION:  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Chalmers, Derek T.  
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0040  
; CURRENT APPLICATION NUMBER: US/09/170,496D  
; CURRENT FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 294  
; SEQ ID NO 222  
; LENGTH: 387  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-170-496D-222

Query Match 47.6%; Score 881.5; DB 4; Length 387;

Best Local Similarity 52.2%; Pred. No. 5e-68; Mismatches 107; Indels 7; Gaps 4;

QY	5	SCCRIGDTISQVMPPLIIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVADFL 64
DB	17	NCCVFRDDFIKVLPLVGLGLEIFGLGLGLALWIFCFHLKSKSSRIFLNLAVADFL 76
QY	65	MTCLPFRDYYLRRHNAFGDIPCRVGLPFTLANNRAGSIVFLTVVAADRYFKVVPHPH 124
DB	77	IICLPFWMYVYRRDWDKPGDIPCRVLVFMFAMNQGSIIFLTWAVDRYFRVHPH 136
QY	125	NYISTRVAGIVCTWALVILGTVLLNHLNLCVQETAVSCSFIMESANGHDMFQLE 184
DB	137	NKISNNTAAIISCLMGITVGLTVHLLKKGLIQNGPANVCISFSICHTFRHHEAMFLE 196
QY	185	FWPMLGILFCSFKIWSLRRRQQLARQRMKATRFIMVAIVFVITCYLPSVSARLYFL 244
DB	197	FLPLGILFCSARLIWSLRQR-QMDRAKIKRATFIMVAIVFVITCYLPSVVRIRIF 255
QY	245	WTVPSA---CD--PSVHGALHITISFTYMSMLDPLVYFSSPFPKFNKLCISLKP 299
DB	256	WLLHSGTQNCVYRSDLAFFITLSFTYMSMLDPLVYFSSPFPFPFSTLINRCLQR 315
QY	300	KQPGHSKQTPREMPIISNLRGSCISVANSFOSQSQDQWDP 340
DB	316	KMTGPDNNRSTSVELTDPNKT-RGAPEALMANSGEWSP 355

```

RESULT 2
US-09-170-496D-108
; Sequence 108, Application US/09170496D
; Patent No. 655339
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: NO. 655339-Endogenous, Constitutively Activated Human G Protein-
; TITLE OF INVENTION: Receptors
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170,496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 108
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-170-496D-108

Query Match 47.5%; Score 880.5; DB 4; Length 387;
Best Local Similarity 52.2%; Pred. No. 6.1e-68;
Matches 178; Conservative 49; Mismatches 107; Indels 7; Gaps 4;

QY 5 SCRIEGDTISQVMPPLLIIVAFVILGALNGVALCGFCFHMKTWKPSTVYLFNLAVADFLL 64
DB 17 NCCVFRDDPIAKVLPVVLGLEFIFGLLGNGLALWIFCFHLKSWKSSRIPLFNLAVADFLL 76

QY 65 MICLPRDTYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHPHRAV 124
DB 77 IICLPFVMDYYRRSDWNGFDIPCRVLFLFMFAMNRQGSIIIFLTVVAVDRYFRVHPHRAV 136

QY 125 NTISTRVAAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGHMDIMFOLE 184
DB 137 NKISNWTAAIISCLLWGTIVGLTVHLLKKLLIQNGPANVCISFSICHTFRWHEAMFLE 196

QY 185 FFMPLGIILFCFSKIVMSLRRQOLARQARKKATFRFMVAIVITCYLPSVSARLYPL 244
DB 197 FLLPLGIILFCSARIISLRQ-QMDRHAKIKRAITFMVAIVFVICFLPSVVVRIRIF 255

QY 245 WTVPSA---CD--PSVHGALHITLSFTYMNMLDPLVYFSSPSFPFKYKLCISLKP 299
DB 256 WLLHTSGTQNCVYRSVDLAFITLSFTYMNMLDPLVYFSSPSFPNFSTLINRCLQR 315

QY 300 KQPGHSKTQRPPEMPISNLGRSCISVANSPQSOSDQWDP 340
DB 316 KMTGEPDNNRSTVELTGDPNKT-RGAPEALMANGEPWSP 355

RESULT 3
US-09-944-807-21
; Sequence 21, Application US/09944807
; Patent No. 6773895
; GENERAL INFORMATION:
; APPLICANT: Boehringer Ingelheim Pharma KG
; TITLE OF INVENTION: Method for identifying substances which positively
; TITLE OF INVENTION: influence inflammatory conditions of chronic
; TITLE OF INVENTION: inflammatory airway diseases
; FILE REFERENCE: 082.00n
; CURRENT APPLICATION NUMBER: US/09/944,807
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: UK 0021484.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-944-807-21

Query Match 47.5%; Score 880.5; DB 4; Length 387;

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Best Local Similarity 52.2%; Pred. No. 6.1e-68;
Matches 178; Conservative 49; Mismatches 107; Indels 7; Gaps 4;

QY 5 SCRIEGDTISQVMPPLLIIVAFVILGALNGVALCGFCFHMKTWKPSTVYLFNLAVADFLL 64
DB 17 NCCVFRDDPIAKVLPVVLGLEFIFGLLGNGLALWIFCFHLKSWKSSRIPLFNLAVADFLL 76

QY 65 MICLPRDTYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHPHRAV 124
DB 77 IICLPFVMDYYRRSDWNGFDIPCRVLFLFMFAMNRQGSIIIFLTVVAVDRYFRVHPHRAV 136

QY 125 NTISTRVAAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGHMDIMFOLE 184
DB 137 NKISNWTAAIISCLLWGTIVGLTVHLLKKLLIQNGPANVCISFSICHTFRWHEAMFLE 196

QY 185 FFMPLGIILFCFSKIVMSLRRQOLARQARKKATFRFMVAIVITCYLPSVSARLYPL 244
DB 197 FLLPLGIILFCSARIISLRQ-QMDRHAKIKRAITFMVAIVFVICFLPSVVVRIRIF 255

QY 245 WTVPSA---CD--PSVHGALHITLSFTYMNMLDPLVYFSSPSFPFKYKLCISLKP 299
DB 256 WLLHTSGTQNCVYRSVDLAFITLSFTYMNMLDPLVYFSSPSFPNFSTLINRCLQR 315

QY 300 KQPGHSKTQRPPEMPISNLGRSCISVANSPQSOSDQWDP 340
DB 316 KMTGEPDNNRSTVELTGDPNKT-RGAPEALMANGEPWSP 355

RESULT 4
US-08-955-713-2
; Sequence 2, Application US/08955713
; Patent No. 5955308
; GENERAL INFORMATION:
; APPLICANT: SATHE, GANESH
; APPLICANT: MOONEY, JEFFREY
; APPLICANT: BERGSMAN, DEBK
; APPLICANT: HALSEY, WENDY
; TITLE OF INVENTION: CDNA CLONE HEAD54 THAT ENCODES
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. BOX 980
; CITY: VALLEY FORGE
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/955.713
; FILING DATE: 23-OCT-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/050,124
; FILING DATE: 18-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GH-70087
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

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US-08-955-713-2

Query Match 28.5%; Score 529; DB 2; Length 423;  
Best Local Similarity 39.2%; Pred. No. 1.1e-37;  
Matches 115; Conservative 48; Mismatches 108; Indels 22; Gaps 7;

QY 4 GSCREGTISQVMPPLIVAFVGLGNGVALCGFCFHMKTWKPSTVYLFNLAVADFL 63  
Db 81 GPCHTPSSLSVAFAPIALLEFVLGVLGNSLAFICHTHPTWTSNTVFLVSLVAADFL 140  
QY 64 LMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVLTVAADRYKVVHPHHA 123  
Db 141 LISNLEPLRVYLLHETWFGAAACKVNFMLSTNRKASVFLTALANRYLKVVQPHV 200  
QY 124 VNTISTRVAAGVICTLWALVILGTVYLLLENHLCVQETAVSCSFIM----ESANGMHD 178  
Db 201 LSRASVGAARVAGGLWVGI-----LLNGHLLSTFSGPCLSVRVGTPKPSASLRHQ 254  
QY 179 IMFOLEFFMPLGIILFCSPKIWSLRRROQLARQAMKATRTFMVVAIVPTCYLPSV- 237  
Db 255 ALYLLEFFPLALILFAIVSIGLITRNR-GLGQAGPQRAMRVLAMVAVYTICFLPSII 313  
QY 238 --SARLYFLWTVPSSA---CDPSVHGALHITLSFTYMSMLDPLVYFSSPSF 285  
Db 314 FGMASVAFWLSACRSLDLCTQLFHG-----SLAFTYLSVLDPLVLCFSSPNF 362

RESULT 5

US-08-955-713-4  
; Sequence 4, Application US/08955713  
; Patent No. 5955308  
; GENERAL INFORMATION:  
; APPLICANT: SATHE, GANESH  
; APPLICANT: MOONEY, JEFFREY  
; APPLICANT: BERGSMAN, DEREK  
; APPLICANT: HALSEY, WENDY  
; TITLE OF INVENTION: CDNA CLONE HEOAD54 THAT ENCODES A HUMAN 7-TRANS  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: RATNER & PRESTIA  
; STREET: P.O. BOX 980  
; CITY: VALLEY FORGE  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19482  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/955,713  
; FILING DATE: 23-OCT-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/050,124  
; FILING DATE: 18-JUN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PRESTIA, PAUL F  
; REGISTRATION NUMBER: 23,031  
; REFERENCE/DOCKET NUMBER: GH-70087  
; TELEPHONE: 610-407-0700  
; TELEFAX: 610-407-0701  
; TELEX: 846169  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 476 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-955-713-4

US-08-955-713-2

Query Match 27.5%; Score 510; DB 2; Length 476;  
Best Local Similarity 39.6%; Pred. No. 5.4e-36;  
Matches 110; Conservative 47; Mismatches 101; Indels 20; Gaps 6;

QY 18 MPPLIVAFVGLGNGVALCGFCFHMKTWKPSTVYLFNLAVADFLMTCLEPRTDYLLR 77  
Db 6 LAPILALEFVLGVLGNSLAFICHTHPTWTSNTVFLVSLVAADFLILNSLPLRVDYLL 65  
QY 78 RRHWAFGDIPCRVGLFTLAMNRAGSIVLTVAADRYKVVHPHHAIVNTISTRVAAGIVC 137  
Db 66 HETWFGAAACKVNFMLSTNRKASVFLTALANRYLKVVQPHVNLNEASVGAARVXG 125  
QY 138 TLWALVILGTVYLLLENHLCVQETAVSCSFIM----ESANGHDMIFOLEFMPILGIIL 193  
Db 126 GIWVGILLNGXLLNTF-----SGPCLSVRVGTPKPSASLRHQALYLLLEFPLALIL 180  
QY 194 FCSFKIWSLRRROQLARQAMKATRTFMVVAIVPTCYLPSV---SARLYFLWTVPSS 250  
Db 181 FAIVSIGLITRNR-GLGQAGPQRAMRVLAMVAVYTICFLPSIIFGMASVAFWLSACR 239  
QY 251 A---CDPSVHGALHITLSFTYMSMLDPLVYFSSPSF 285  
Db 240 SLDLCTQLFHG-----SLAFTYLSVLDPLVLCFSSPNF 273

RESULT 6

US-09-130-749-2  
; Sequence 2, Application US/09130749  
; Patent No. 6031090  
; GENERAL INFORMATION:  
; APPLICANT: SHABON, USMAN  
; ELSHOURBAGY, NABIL  
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM  
; RECEPTOR (GPR31A)  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: RATNER & PRESTIA  
; STREET: P.O. Box 980  
; CITY: Valley Forge  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19482  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/130,749  
; FILING DATE: 07-Aug-1998  
; CLASSIFICATION: UNKNOWN  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: <Unknown>  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PRESTIA, PAUL F  
; REGISTRATION NUMBER: 23,031  
; REFERENCE/DOCKET NUMBER: GP-70513  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 610-407-0700  
; TELEFAX: 610-407-0701  
; TELEX: 846169  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 319 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-130-749-2





Db 327 ATRKSSRRSEP--NVQSKSEMTLNIL 351

RESULT 11  
US-08-559-524A-4  
; Sequence 4, Application US/08559524A  
; Patent No. 5871963  
; GENERAL INFORMATION:  
; APPLICANT: Conley, Pamela B.  
; APPLICANT: Jantzen, Hans-Michael  
; TITLE OF INVENTION: NOVEL PURINERGIC RECEPTOR  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN, LEWIS & BOCKIUS LLP  
; STREET: 1800 M Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20036-5869  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/559,524A  
; FILING DATE: 15-NOV-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Adler, Reid G.  
; REGISTRATION NUMBER: 30,988  
; REFERENCE/DOCKET NUMBER: 044481-5010-00-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-467-7000  
; TELEFAX: 202-467-7176  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 373 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-559-524A-4

Query Match 19.6%; Score 362.5; DB 2; Length 373;  
Best Local Similarity 27.5%; Pred. No. 28-23;  
Matches 92; Conservative 68; Mismatches 140; Indels 35; Gaps 7;  
QY 18 MPPLLIIVAVLGLGNGVALCGFCFHMKTWKPSTVYLFNLAVADFLMCLPFRDYLYR 77  
Db 54 LPVYLVIIIGLGNVAIWMFVFMKPSGIVYMFNLALADFLYVLTLPALIFYFN 113  
QY 78 RRHWAFGDIPCRVGLFTLAMNRAGSIVELTVVAADRYFKVPHHVAIVTISTRVAAGIVC 137  
Db 114 KTDWIFGDAMCKLQRFIFHNLYGSILFTCTSAHRYSGVYVPLKSLGRKKKNVYISV 173  
QY 138 TLWALVILGTVLLLENHLCVQET-AVSC-----ESFTMESANGHMDIMFOLEPFM 187  
Db 174 LWLIIVVGISPLFYSGTGIRKNTIICYDTSDYLSYFIYSM-----CTTVAMFCV 228  
QY 188 PLGITLFCSEKIVMSLRRRQOLARQARKKATRFIMVVAIVTICVLP-----SVSAR 240  
Db 229 PLVILGCGYGLIVRALIYK-DLDNSPLRRKSIYLVIIIVTVFAVSIYIPFHVMTNLRAR 287  
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYMSMLDPLVYFFSPSPFKYNKLIKCSLKP 300  
Db 288 LDF-QTPWCAFNDRVYATYQVTRGLASLNSCVDPIYFLAGDTFRRLSR-----337  
QY 301 QGHSTQRPPEMPTISNLGRSCISVANSFQOSD 335  
Db 338 --ATRKASRRSEANLQSKSEMTLNILSEFKONGD 370

RESULT 12  
US-08-749-707-4  
; Sequence 4, Application US/08749707  
; Patent No. 6063582  
; GENERAL INFORMATION:  
; APPLICANT: Conley, Pamela B.  
; APPLICANT: Jantzen, Hans-Michael  
; TITLE OF INVENTION: NOVEL PURINERGIC RECEPTOR  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN, LEWIS & BOCKIUS LLP  
; STREET: 1800 M Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20036-5869  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/749,707  
; FILING DATE: 15-NOV-1996  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Adler, Reid G.  
; REGISTRATION NUMBER: 30,988  
; REFERENCE/DOCKET NUMBER: 044481-5010-01-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-467-7000  
; TELEFAX: 202-467-7176  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 373 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-749-707-4

Query Match 19.6%; Score 362.5; DB 3; Length 373;  
Best Local Similarity 27.5%; Pred. No. 28-23;  
Matches 92; Conservative 68; Mismatches 140; Indels 35; Gaps 7;  
QY 18 MPPLLIIVAVLGLGNGVALCGFCFHMKTWKPSTVYLFNLAVADFLMCLPFRDYLYR 77  
Db 54 LPVYLVIIIGLGNVAIWMFVFMKPSGIVYMFNLALADFLYVLTLPALIFYFN 113  
QY 78 RRHWAFGDIPCRVGLFTLAMNRAGSIVELTVVAADRYFKVPHHVAIVTISTRVAAGIVC 137  
Db 114 KTDWIFGDAMCKLQRFIFHNLYGSILFTCTSAHRYSGVYVPLKSLGRKKKNVYISV 173  
QY 138 TLWALVILGTVLLLENHLCVQET-AVSC-----ESFTMESANGHMDIMFOLEPFM 187  
Db 174 LWLIIVVGISPLFYSGTGIRKNTIICYDTSDYLSYFIYSM-----CTTVAMFCV 228  
QY 188 PLGITLFCSEKIVMSLRRRQOLARQARKKATRFIMVVAIVTICVLP-----SVSAR 240  
Db 229 PLVILGCGYGLIVRALIYK-DLDNSPLRRKSIYLVIIIVTVFAVSIYIPFHVMTNLRAR 287  
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYMSMLDPLVYFFSPSPFKYNKLIKCSLKP 300  
Db 288 LDF-QTPWCAFNDRVYATYQVTRGLASLNSCVDPIYFLAGDTFRRLSR-----337  
QY 301 QGHSTQRPPEMPTISNLGRSCISVANSFQOSD 335  
Db 338 --ATRKASRRSEANLQSKSEMTLNILSEFKONGD 370

RESULT 13  
US-09-947-922-4



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; FEATURE:
; OTHER INFORMATION: P2Y1 purinergic receptor; p2Yr
US-09-745-842-14

Query Match      19.1%; Score 354; DB 4; Length 373;
Best Local Similarity 29.2%; Pred. No. 1.1e-22;
Matches 93; Conservative 66; Mismatches 132; Indels 28; Gaps 8;

QY 18 MEPLLIIVAFVLGALGVLCGFCFHKMTKPESTVYLFENLAVADPELLMICLPFRDYYLR 77
Db 54 LPAVYILVFIIIGLGNVAIMWFVFMKFPWGSIGSYMENLADFLYVLTLPALIFYYPN 113

QY 78 RRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVAAADRYFKVPHPHAVNTISTRVAAGIVC 137
Db 114 KTDWIFGDAMCKLQRFIFHVNLYGSILFLTCSAHRYSGVYVPLKSLGRLLKKNNAICISV 173

QY 138 TLWALVILGTVYLLLENHLCVOET-AVSC-----ESFTMESANGWHDIMFOLEFFM 187
Db 174 LVMLIIVVAISPIILFYSGTGVKKNKTIITCYDTTSDYLRSYFIYSM-----CTTVAMFCV 228

QY 188 PLGIILFCGFKIWSLRRRQQLARQARMKKATRFIMVVAIVEITCYLP-----SVSAR 240
Db 229 PLVLIIGCYGLIVRALIYK-DLDNSPLRRKSYLVIIIVLTVFAVSIIPIFHVMTWNLRAR 287

QY 241 LVFLWTVPSACDPSVHGALHITLSFTVMNSMLDPLVYFFSSPSPKFNKIKICSLKPK 300
Db 288 LDF-QTPAMCAFNDRYATYQVTRGLASLNSCVDFILYFLAGDTFPR---RLSRATRKAS 343

QY 301 QFGHSKTQ-RPEEMPISNL 318
Db 344 RREANLQSKSEDWTLNIL 362
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Search completed: August 30, 2005, 18:35:23  
.Job time : 45 secs



Result No.	Score	Query Match	Length	DB ID	Description
1	1853	100.0	346	9	US-09-862-274-2
2	1853	100.0	346	9	US-09-942-374-2
3	1853	100.0	346	10	US-09-886-041-2
4	1853	100.0	346	10	US-09-782-974C-80
5	1853	100.0	346	14	US-10-188-149A-2
6	1853	100.0	346	14	US-10-079-384-18
7	1853	100.0	346	14	US-10-240-842-2
8	1853	100.0	346	14	US-10-225-567A-668
9	1853	100.0	346	14	US-10-201-481-7
10	1853	100.0	346	14	US-10-278-141-3
11	1853	100.0	346	14	US-10-321-807-24

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QY 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYPKVHP 120
Db 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYPKVHP 120
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHIM 180
Db 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHIM 180
QY 181 FOLEFMPGLGIILFCSFKIWSLRRRQOLARQARKKATRFIMVAIVFITCYLPSVSAR 240
Db 181 FOLEFMPGLGIILFCSFKIWSLRRRQOLARQARKKATRFIMVAIVFITCYLPSVSAR 240
QY 241 LYFLWTVPSACDPSVHGALHTLTSFTYNSMLDPLVYFSSPSPKFNKIKICSLKPK 300
Db 241 LYFLWTVPSACDPSVHGALHTLTSFTYNSMLDPLVYFSSPSPKFNKIKICSLKPK 300
QY 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346
Db 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346

```

## RESULT 2

```

US-09-942-374-2
; Sequence 2, Application US/09942374
; Patent No. US20020137063A1
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria Alexandra
; APPLICANT: Gimeno, Ruth
; APPLICANT: White, David
; TITLE OF INVENTION: 57242, a Human G-Protein Coupled
; FILE REFERENCE: MP12008-368PIR
; CURRENT APPLICATION NUMBER: US/09/942,374
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: US 60/228,409
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 346
; TYPE: PRT
; ORGANISM: human
US-09-942-374-2

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Query Match 100.0%; Score 1853; DB 9; Length 346;
Best Local Similarity 100.0%; Pred. No. 3.6e-163;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

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QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGCFHMKTKPSTVYLFNLAVA 60
Db 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGCFHMKTKPSTVYLFNLAVA 60
QY 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYPKVHP 120
Db 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYPKVHP 120
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHIM 180
Db 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHIM 180
QY 181 FOLEFMPGLGIILFCSFKIWSLRRRQOLARQARKKATRFIMVAIVFITCYLPSVSAR 240
Db 181 FOLEFMPGLGIILFCSFKIWSLRRRQOLARQARKKATRFIMVAIVFITCYLPSVSAR 240
QY 241 LYFLWTVPSACDPSVHGALHTLTSFTYNSMLDPLVYFSSPSPKFNKIKICSLKPK 300
Db 241 LYFLWTVPSACDPSVHGALHTLTSFTYNSMLDPLVYFSSPSPKFNKIKICSLKPK 300
QY 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346
Db 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346

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RESULT 3
US-09-886-041-2
; Sequence 2, Application US/09886041
; Publication No. US20030059869A1
; GENERAL INFORMATION:
; APPLICANT: XIA, TAI-HE
; APPLICANT: NI, DONGHUI
; APPLICANT: EISHINGDELO, HAIFENG
; APPLICANT: ARDATI, ALI
; APPLICANT: MINNICH, ANNE
; APPLICANT: JUPP, RAY
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTOR
; FILE REFERENCE: 41491
; CURRENT APPLICATION NUMBER: US/09/886,041
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-886-041-2

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Query Match 100.0%; Score 1853; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 3.6e-163;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGCFHMKTKPSTVYLFNLAVA 60
Db 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGCFHMKTKPSTVYLFNLAVA 60
QY 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYPKVHP 120
Db 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYPKVHP 120
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHIM 180
Db 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHIM 180
QY 181 FOLEFMPGLGIILFCSFKIWSLRRRQOLARQARKKATRFIMVAIVFITCYLPSVSAR 240
Db 181 FOLEFMPGLGIILFCSFKIWSLRRRQOLARQARKKATRFIMVAIVFITCYLPSVSAR 240
QY 241 LYFLWTVPSACDPSVHGALHTLTSFTYNSMLDPLVYFSSPSPKFNKIKICSLKPK 300
Db 241 LYFLWTVPSACDPSVHGALHTLTSFTYNSMLDPLVYFSSPSPKFNKIKICSLKPK 300
QY 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346
Db 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346

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## RESULT 4

```

US-09-782-974C-80
; Sequence 80, Application US/09782974C
; Publication No. US20030082534A1
; GENERAL INFORMATION:
; APPLICANT: Vogeli, Gabriel
; APPLICANT: Lind, Peter
; APPLICANT: Wood, Linda S.
; APPLICANT: Parodi, Luis A.
; TITLE OF INVENTION: No. US20030082534A1el G Protein Coupled Receptor
; FILE REFERENCE: 411USPHRM311
; CURRENT APPLICATION NUMBER: US/09/782,974C
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/165,838
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 09/714,449
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: 60/198,568
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: 60/166,071
; PRIOR FILING DATE: 1999-11-17

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; PRIOR APPLICATION NUMBER: 60/166,678
; PRIOR FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: 60/173,396
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/184,129
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 60/185,421
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/185,554
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: 60/186,530
; PRIOR FILING DATE: 2000-03-02
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 80
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-782-974C-80

Query Match          100.0%; Score 1853; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 3.6e-163;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNGVALCGCFHMKTKWKPSTVYLFNLAVA 60
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNGVALCGCFHMKTKWKPSTVYLFNLAVA 60
QY 61 DFLLMICLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
DB 61 DFLLMICLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
QY 121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
DB 121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
QY 181 FOLEPFMPLGIILFCSFKIVNSLRRLRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240
DB 181 FOLEPFMPLGIILFCSFKIVNSLRRLRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPKPKFNKLIKSLKPK 300
DB 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPKPKFNKLIKSLKPK 300
QY 301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346
DB 301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 5
US-10-188-149A-2
; Sequence 2, Application US/10188149A
; Publication No. US2003007734A1
; GENERAL INFORMATION:
; APPLICANT: YE, Jane et al.
; TITLE OF INVENTION: ISOLATED HUMAN G-PROTEIN COUPLED
; TITLE OF INVENTION: RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL000782-CON
; CURRENT APPLICATION NUMBER: US/10/188,149A
; CURRENT FILING DATE: 2002-12-10
; PRIOR APPLICATION NUMBER: US 09/666,535
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US 60/230,459
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: US 60/192,419
; PRIOR FILING DATE: 2000-03-27
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 346
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-10-188-149A-2

Query Match          100.0%; Score 1853; DB 14; Length 346;
Best Local Similarity 100.0%; Pred. No. 3.6e-163;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNGVALCGCFHMKTKWKPSTVYLFNLAVA 60
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNGVALCGCFHMKTKWKPSTVYLFNLAVA 60
QY 61 DFLLMICLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
DB 61 DFLLMICLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
QY 121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
DB 121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
QY 181 FOLEPFMPLGIILFCSFKIVNSLRRLRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240
DB 181 FOLEPFMPLGIILFCSFKIVNSLRRLRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPKPKFNKLIKSLKPK 300
DB 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPKPKFNKLIKSLKPK 300
QY 301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346
DB 301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 6
US-10-079-384-18
; Sequence 18, Application US/10079384
; Publication No. US2003010896A1
; GENERAL INFORMATION:
; APPLICANT: Communi, Didier
; TITLE OF INVENTION: COMPOSITIONS AND METHODS COMPRISING G-PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 9409/2132
; CURRENT APPLICATION NUMBER: US/10/079,384
; CURRENT FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 09/885,453
; PRIOR FILING DATE: 2001-06-20
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-079-384-18

Query Match          100.0%; Score 1853; DB 14; Length 346;
Best Local Similarity 100.0%; Pred. No. 3.6e-163;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNGVALCGCFHMKTKWKPSTVYLFNLAVA 60
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALGNGVALCGCFHMKTKWKPSTVYLFNLAVA 60
QY 61 DFLLMICLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
DB 61 DFLLMICLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
QY 121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
DB 121 HNAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
QY 181 FOLEPFMPLGIILFCSFKIVNSLRRLRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240
DB 181 FOLEPFMPLGIILFCSFKIVNSLRRLRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240
QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPKPKFNKLIKSLKPK 300
DB 241 LYFLMTVPSSACDPSVHGALHITLSFTYNSMLDPLVYFSSPSPKPKFNKLIKSLKPK 300
QY 301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346
DB 301 QPGHKTQRPPEMPTISNLGRSCISVANSFQSDGQWDPHIVEWH 346
```

|||||  
Db 241 LYFLMTVPSSACDPVHGALHITLSTYMNMLDPLVYFSSPPKFNKIKICSLKPK 300  
QY 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346  
Db 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346

## RESULT 7

US-10-240-842-2  
; Sequence 2, Application US/10240842  
; Publication No. US20030109673A1  
; GENERAL INFORMATION:  
; APPLICANT: Xiao, Yonghong  
; TITLE OF INVENTION: REGULATION OF HUMAN HM74-LIKE G PROTEIN-COUPLED RECEPTOR  
; FILE REFERENCE: 4974.00883  
; CURRENT APPLICATION NUMBER: US/10/240,842  
; CURRENT FILING DATE: 2002-10-04  
; PRIOR APPLICATION NUMBER: 60/194,701  
; PRIOR FILING DATE: 2000-04-05  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 2  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-240-842-2

Query Match 100.0%; Score 1853; DB 14; Length 346;  
Best Local Similarity 100.0%; Pred. No. 3.6e-163;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
Db 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
QY 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYPKVVHP 120  
Db 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYPKVVHP 120  
QY 121 HNAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
Db 121 HNAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
QY 181 FOLEFFMPLGIILFCSFKIVMSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240  
Db 181 FOLEFFMPLGIILFCSFKIVMSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPVHGALHITLSTYMNMLDPLVYFSSPPKFNKIKICSLKPK 300  
Db 241 LYFLMTVPSSACDPVHGALHITLSTYMNMLDPLVYFSSPPKFNKIKICSLKPK 300  
QY 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346  
Db 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346

## RESULT 8

US-10-225-567A-668  
; Sequence 668, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burner, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; CURRENT FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292

; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 668  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-225-567A-668

Query Match 100.0%; Score 1853; DB 14; Length 346;  
Best Local Similarity 100.0%; Pred. No. 3.6e-163;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
Db 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
QY 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYPKVVHP 120  
Db 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYPKVVHP 120  
QY 121 HNAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
Db 121 HNAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
QY 181 FOLEFFMPLGIILFCSFKIVMSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240  
Db 181 FOLEFFMPLGIILFCSFKIVMSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPVHGALHITLSTYMNMLDPLVYFSSPPKFNKIKICSLKPK 300  
Db 241 LYFLMTVPSSACDPVHGALHITLSTYMNMLDPLVYFSSPPKFNKIKICSLKPK 300  
QY 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346  
Db 301 QPGHSKTQRPPEMPISNLGRRSCISVANSFQSDGQWDPHIVEWH 346

## RESULT 9

US-10-201-481-7  
; Sequence 7, Application US/10201481  
; Publication No. US20030119024A1  
; GENERAL INFORMATION:  
; APPLICANT: Linsley, Peter  
; APPLICANT: Mao, Mao  
; APPLICANT: Biery, Matthew  
; TITLE OF INVENTION: Genes and Proteins Associated with T-Cell Activation  
; FILE REFERENCE: 9301-133-999  
; CURRENT APPLICATION NUMBER: US/10/201,481  
; CURRENT FILING DATE: 2002-07-19  
; PRIOR APPLICATION NUMBER: 60/306,968  
; PRIOR FILING DATE: 2001-07-20  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 7  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-201-481-7

Query Match 100.0%; Score 1853; DB 14; Length 346;  
Best Local Similarity 100.0%; Pred. No. 3.6e-163;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
Db 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVTYLFNLAVA 60  
QY 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYPKVVHP 120  
Db 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYPKVVHP 120  
QY 121 HNAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
Db 121 HNAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180

QY 181 FOLEFMPGLIILFCSFKIWSLRRRQQLARQARMKATRFIMVVAIVFITCYLPSVSAR 240  
DB 181 FOLEFMPGLIILFCSFKIWSLRRRQQLARQARMKATRFIMVVAIVFITCYLPSVSAR 240  
QY 241 LYFLWTVPSACDPSVHGALHITLSFTYNSMLDPLVYFSSPPKPFYNKLIKISLKP 300  
DB 241 LYFLWTVPSACDPSVHGALHITLSFTYNSMLDPLVYFSSPPKPFYNKLIKISLKP 300  
QY 301 QPGHKTQRPPEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346  
DB 301 QPGHKTQRPPEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346

RESULT 10  
US-10-278-141-3  
; Sequence 3, Application US/10278141  
; Publication No. US20030138818A1  
; GENERAL INFORMATION:  
; APPLICANT: PATTERSON, Chandra  
; APPLICANT: LU, Dyung Aina M.  
; APPLICANT: THORNTON, Michael  
; APPLICANT: LU, Yan  
; APPLICANT: TRIBOULEY, Catherine M.  
; APPLICANT: GRAUL, Richard  
; APPLICANT: KHAN, Farrah A.  
; APPLICANT: GANDHI, Ameena R.  
; APPLICANT: WALIA, Narinder K.  
; APPLICANT: NGUYEN, Dannel B.  
; APPLICANT: YUE, Henry  
; APPLICANT: HAFALIA, April  
; APPLICANT: ELLIOTT, Vicki S.  
; APPLICANT: LAL, Preeti  
; APPLICANT: REDDY, Roopa  
; APPLICANT: KALLICK, Deborah A.  
; APPLICANT: TANG, Y. Tom  
; APPLICANT: AU-YOUNG, Janice  
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS  
; FILE REFERENCE: PI-0096 USA  
; CURRENT APPLICATION NUMBER: US/10/278,141  
; CURRENT FILING DATE: 2002-10-21  
; PRIOR APPLICATION NUMBER: 60/208,834  
; PRIOR FILING DATE: 2000-06-02  
; PRIOR APPLICATION NUMBER: 60/207,566  
; PRIOR FILING DATE: 2000-05-25  
; PRIOR APPLICATION NUMBER: US01/16285  
; PRIOR FILING DATE: 2001-05-17  
; PRIOR APPLICATION NUMBER: 60/205,628  
; PRIOR FILING DATE: 2000-05-18  
; PRIOR APPLICATION NUMBER: 60/208,861  
; PRIOR FILING DATE: 2000-06-02  
; PRIOR APPLICATION NUMBER: 60/206,222  
; PRIOR FILING DATE: 2000-05-22  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PERL Program  
; SEQ ID NO 3  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20030138818A1 7474846CDI  
US-10-278-141-3

Query Match 100.0%; Score 1853; DB 14; Length 346;  
Best Local Similarity 100.0%; Pred. No. 3.6e-163;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHKMTWKPESTVYLFNLAVA 60  
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHKMTWKPESTVYLFNLAVA 60  
QY 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120

DB 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120  
QY 121 HVAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETA VSCSFIMESANGWHDIM 180  
DB 121 HVAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETA VSCSFIMESANGWHDIM 180  
QY 181 FOLEFMPGLIILFCSFKIWSLRRRQQLARQARMKATRFIMVVAIVFITCYLPSVSAR 240  
DB 181 FOLEFMPGLIILFCSFKIWSLRRRQQLARQARMKATRFIMVVAIVFITCYLPSVSAR 240  
QY 241 LYFLWTVPSACDPSVHGALHITLSFTYNSMLDPLVYFSSPPKPFYNKLIKISLKP 300  
DB 241 LYFLWTVPSACDPSVHGALHITLSFTYNSMLDPLVYFSSPPKPFYNKLIKISLKP 300  
QY 301 QPGHKTQRPPEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346  
DB 301 QPGHKTQRPPEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346

RESULT 11  
US-10-321-807-24  
; Sequence 24, Application US/10321807  
; Publication No. US20030166148A1  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Rupong  
; APPLICANT: Dang, Huong T.  
; APPLICANT: Lowitz, Kevin P.  
; TITLE OF INVENTION: No. US20030166148A1-Endogenous, Constitutively Activated Human G  
; FILE REFERENCE: AREN0086  
; CURRENT APPLICATION NUMBER: US/10/321,807  
; CURRENT FILING DATE: 2002-12-16  
; PRIOR APPLICATION NUMBER: US/09/714,008  
; PRIOR FILING DATE: 2000-11-16  
; PRIOR APPLICATION NUMBER: 09/170,496  
; PRIOR FILING DATE: 1999-11-17  
; PRIOR APPLICATION NUMBER: PCT/US99/23938  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: 60/166,088  
; PRIOR FILING DATE: 1999-11-17  
; PRIOR APPLICATION NUMBER: 60/166,099  
; PRIOR FILING DATE: 1999-11-17  
; PRIOR APPLICATION NUMBER: 60/166,369  
; PRIOR FILING DATE: 1999-11-17  
; PRIOR APPLICATION NUMBER: 60/171,902  
; PRIOR FILING DATE: 1999-12-23  
; PRIOR APPLICATION NUMBER: 60/171,901  
; PRIOR FILING DATE: 1999-12-23  
; PRIOR APPLICATION NUMBER: 60/171,900  
; PRIOR FILING DATE: 1999-12-23  
; PRIOR APPLICATION NUMBER: 60/181,749  
; PRIOR FILING DATE: 2000-02-11  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 133  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 24  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-321-807-24

Query Match 100.0%; Score 1853; DB 14; Length 346;  
Best Local Similarity 100.0%; Pred. No. 3.6e-163;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHKMTWKPESTVYLFNLAVA 60  
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHKMTWKPESTVYLFNLAVA 60  
QY 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120  
DB 61 DFLLMICLPFRDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120

QY 121 HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
DB 121 HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
QY 181 FOLEPFMPILGIILFCSFKIVSLRRRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240  
DB 181 FOLEPFMPILGIILFCSFKIVSLRRRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPSVHGALHITLSTFTYNSMLDPLVYFSSPPKPKYKLIKCSLKP 300  
DB 241 LYFLMTVPSSACDPSVHGALHITLSTFTYNSMLDPLVYFSSPPKPKYKLIKCSLKP 300  
QY 301 QPGHKTQRPPEMPISNLGRRCISVANSFQSDGQWDPHIVEWH 346  
DB 301 QPGHKTQRPPEMPISNLGRRCISVANSFQSDGQWDPHIVEWH 346

## RESULT 12

US-10-076-260-2  
; Sequence 2, Application US/10076260  
; Publication No. US20030171541A1  
; GENERAL INFORMATION:  
; APPLICANT: Elliott, Steven G.  
; APPLICANT: Rogers, No. US20030171541A1ma  
; APPLICANT: Busse, Leigh Anne  
; TITLE OF INVENTION: G-Protein Coupled Receptor Molecules and Uses Thereof  
; FILE REFERENCE: 02-076  
; CURRENT APPLICATION NUMBER: US/10/076,260  
; PRIOR FILING DATE: 2002-02-14  
; PRIOR APPLICATION NUMBER: 60/269,040  
; PRIOR FILING DATE: 2001-02-14  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-076-260-2

Query Match 100.0%; Score 1853; DB 14; Length 346;  
Best Local Similarity 100.0%; Pred. No. 3.6e-163;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVA 60  
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVA 60  
QY 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLANNRAGSIVFLTVVAADRYPKVHP 120  
DB 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLANNRAGSIVFLTVVAADRYPKVHP 120  
QY 121 HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
DB 121 HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180  
QY 181 FOLEPFMPILGIILFCSFKIVSLRRRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240  
DB 181 FOLEPFMPILGIILFCSFKIVSLRRRQQLARQARMKKATRFIMVAIVFITCYLPSVSAR 240  
QY 241 LYFLMTVPSSACDPSVHGALHITLSTFTYNSMLDPLVYFSSPPKPKYKLIKCSLKP 300  
DB 241 LYFLMTVPSSACDPSVHGALHITLSTFTYNSMLDPLVYFSSPPKPKYKLIKCSLKP 300  
QY 301 QPGHKTQRPPEMPISNLGRRCISVANSFQSDGQWDPHIVEWH 346  
DB 301 QPGHKTQRPPEMPISNLGRRCISVANSFQSDGQWDPHIVEWH 346

## RESULT 13

US-10-044-643-2  
; Sequence 2, Application US/10044643  
; Publication No. US20030195335A1

; GENERAL INFORMATION:  
; APPLICANT: Majumder, Kumud  
; APPLICANT: Vernet, Corine  
; APPLICANT: Casman, Stacie J  
; APPLICANT: Wolenc, Adam R  
; APPLICANT: Spaderna, Steven K  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Mishra, Vishnu S  
; APPLICANT: Tchernev, Velizar T  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Li, Li  
; APPLICANT: Baumgartner, Jason C  
; APPLICANT: Gusev, Vladimir  
; TITLE OF INVENTION: No. US20030195335A1el Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 15966-748  
; CURRENT APPLICATION NUMBER: US/10/044,643  
; CURRENT FILING DATE: 2002-01-11  
; PRIOR APPLICATION NUMBER: 60/193,664  
; PRIOR FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: 60/194,614  
; PRIOR FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: 60/195,063  
; PRIOR FILING DATE: 2000-04-06  
; PRIOR APPLICATION NUMBER: 60/195,066  
; PRIOR FILING DATE: 2000-04-06  
; PRIOR APPLICATION NUMBER: 60/195,067  
; PRIOR FILING DATE: 2000-04-06  
; PRIOR APPLICATION NUMBER: 60/195,068  
; PRIOR FILING DATE: 2000-04-06  
; PRIOR APPLICATION NUMBER: 60/195,069  
; PRIOR FILING DATE: 2000-04-06  
; PRIOR APPLICATION NUMBER: 60/195,070  
; PRIOR FILING DATE: 2000-04-06  
; PRIOR APPLICATION NUMBER: 60/195,510  
; PRIOR FILING DATE: 2000-04-06  
; PRIOR APPLICATION NUMBER: 60/219,855  
; PRIOR FILING DATE: 2000-07-21  
; PRIOR APPLICATION NUMBER: 60/221,284  
; PRIOR FILING DATE: 2000-07-27  
; PRIOR APPLICATION NUMBER: 60/221,325  
; PRIOR FILING DATE: 2000-07-28  
; PRIOR APPLICATION NUMBER: 60/224,588  
; PRIOR FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: 60/239,613  
; PRIOR FILING DATE: 2000-10-11  
; PRIOR APPLICATION NUMBER: 60/262,508  
; PRIOR FILING DATE: 2001-01-18  
; PRIOR APPLICATION NUMBER: 60/263,604  
; PRIOR FILING DATE: 2001-01-23  
; PRIOR APPLICATION NUMBER: 60/263,433  
; PRIOR FILING DATE: 2001-01-23  
; PRIOR APPLICATION NUMBER: 60/265,161  
; NUMBER OF SEQ ID NOS: 83  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-044-643-2

Query Match 100.0%; Score 1853; DB 14; Length 346;  
Best Local Similarity 100.0%; Pred. No. 3.6e-163;  
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVA 60  
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVA 60  
QY 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLANNRAGSIVFLTVVAADRYPKVHP 120  
DB 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLANNRAGSIVFLTVVAADRYPKVHP 120

Qy	121	HHA	VNTI	STR	VAA	GIV	CT	L	W	A	L	V	I	L	T	G	T	T	T	L	L	E	N	H	L	C	V	Q	E	T	A	V	S	C	S	F	I	M	E	S	A	N	G	H	D	I	M	180									
Db	121	HHA	VNTI	STR	VAA	GIV	CT	L	W	A	L	V	I	L	T	G	T	T	T	L	L	E	N	H	L	C	V	Q	E	T	A	V	S	C	S	F	I	M	E	S	A	N	G	H	D	I	M	180									
Qy	181	F	O	L	E	F	F	M	P	L	G	I	L	F	C	S	F	K	I	V	A	S	L	R	R	Q	L	A	R	A	M	K	K	A	T	R	I	M	V	A	L	V	F	I	T	C	L	P	S	V	S	A	R	240			
Db	181	F	O	L	E	F	F	M	P	L	G	I	L	F	C	S	F	K	I	V	A	S	L	R	R	Q	L	A	R	A	M	K	K	A	T	R	I	M	V	A	L	V	F	I	T	C	L	P	S	V	S	A	R	240			
Qy	241	L	Y	F	L	T	V	P	S	S	A	C	D	P	S	V	H	G	A	L	I	T	S	F	T	Y	M	N	S	M	L	D	P	L	V	Y	F	S	S	P	S	F	P	K	F	Y	N	K	L	I	C	S	L	K	P	K	300
Db	241	L	Y	F	L	T	V	P	S	S	A	C	D	P	S	V	H	G	A	L	I	T	S	F	T	Y	M	N	S	M	L	D	P	L	V	Y	F	S	S	P	S	F	P	K	F	Y	N	K	L	I	C	S	L	K	P	K	300
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Db	301	Q	P	G	H	S	K	T	O	R	P	E	M	P	I	S	N	I	G	R	S	C	I	S	V	A	N	S	F	O	S	Q	S	G	Q	W	D	P	H	I	V	E	W	H	346												

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RESULT 14
US-10-296-081-3
; Sequence 3, Application US/10296081
; Publication No. US20030220477A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: PATTERSON, Chandra
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: THORNTON, Michael
; APPLICANT: LU, Yan
; APPLICANT: TRIBOULEY, Catherine M.
; APPLICANT: GRAUL, Richard
; APPLICANT: KHAN, Farrah A.
; APPLICANT: GANDHI, Ameena R.
; APPLICANT: WALIA, Narinder K.
; APPLICANT: NGUYEN, Damiel B.
; APPLICANT: YUE, Henry
; APPLICANT: HAFALIA, April
; APPLICANT: ELLIOTT, Vicki S.
; APPLICANT: Lal, Preeti
; APPLICANT: REDDY, Roopa
; APPLICANT: KALLICK, Deborah A.
; APPLICANT: TANG, Y. Tom
; APPLICANT: AU-YOUNG, Janice
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: PI-0096 PCT
; CURRENT APPLICATION NUMBER: US/10/296,081
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 60/205,628; 60/206,222; 60/207,566; 60/208,834; 60/208,851
; PRIOR FILING DATE: 2000-05-18; 2000-05-22; 2000-05-25; 2000-06-02; 2000-06-02
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PERL Program
; SEQ ID NO 3
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030220477A1 7474846CD1
US-10-296-081-3

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Qy	181	FOLEFFNPGLGILLPCSFKI VWSLRRRQOLARQARMKKATRIMVVAIVFITCYLPSVSAR	240
Db	181	FOLEFFNPGLGILLPCSFKI VWSLRRRQOLARQARMKKATRIMVVAIVFITCYLPSVSAR	240
Qy	241	LYFLWTVPSACDPSVHGALHITLSFTYVNSMLDPLVYFSSPSPKFVNKLKICSLKPK	300
Db	241	LYFLWTVPSACDPSVHGALHITLSFTYVNSMLDPLVYFSSPSPKFVNKLKICSLKPK	300
Qy	301	QPGHSKTQRPEEMPISNLGRSCISVANSFQSQSDGQWDPHIVEWH	346
Db	301	QPGHSKTQRPEEMPISNLGRSCISVANSFQSQSDGQWDPHIVEWH	346

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RESULT 15
US-10-210-172-178
; Sequence 178, Application US/10210172
; Publication No. US20040043928A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Miller, Charles
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol
; APPLICANT: Rieger, Daniel
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Li, Li
; APPLICANT: Ji, Weizhen
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Casman, Stacie
; APPLICANT: Voss, Edward
; APPLICANT: Boldog, Ferenc
; APPLICANT: Gorman, Linda
; APPLICANT: Leite, Mario
; APPLICANT: Vernet, Corine
; APPLICANT: Anderson, David
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zhong, Mei
; APPLICANT: Gerlach, Valerie
; APPLICANT: Hjalt, Tord
; APPLICANT: Rastelli, Luca
; APPLICANT: Spytek, Kimberly
; APPLICANT: Edinger, Shlomit
; APPLICANT: Ellerman, Karen
; APPLICANT: Malyankar, Uriel
; APPLICANT: MacDougall, John
; APPLICANT: Stone, David
; APPLICANT: Alsobrook II, John
; APPLICANT: Lepley, Denise et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME,
; FILE REFERENCE: 21402-416 A
; CURRENT APPLICATION NUMBER: US/10/210,172
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/309,501
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: 60/323,994
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 60/373,814
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/310,291
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 60/310,951
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/310,544
; PRIOR FILING DATE: 2001-08-07
; PRIOR APPLICATION NUMBER: 60/311,292
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/311,979
; PRIOR FILING DATE: 2001-08-13
; PRIOR APPLICATION NUMBER: 60/313,201
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 60/312,892
; PRIOR FILING DATE: 2001-08-16

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; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 327

; SOFTWARE: CuraSeqList version 0.1

; SEQ ID NO 178

; LENGTH: 346

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-210-172-178

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Query Match      100.0%; Score 1853; DB 15; Length 346;
Best Local Similarity 100.0%; Pred. No. 3.6e-163;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  MYNGSCCRIEGDTISQVMPPLIIVAFVLGALGNVALCGCFPHMKTWKPSVTYVLENLAVA 60
DB      1  MYNGSCCRIEGDTISQVMPPLIIVAFVLGALGNVALCGCFPHMKTWKPSVTYVLENLAVA 60

QY      61  DFLLMICLPFRDYILRRRHMAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVWHP 120
DB      61  DFLLMICLPFRDYILRRRHMAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVWHP 120

QY     121  HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVOETAVSCSFIMESANGWHDIM 180
DB     121  HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVOETAVSCSFIMESANGWHDIM 180

QY     181  FOLEFPMPLGIILFCSFKIVSLRRRQQLARQARMKKATREIMVVAIVFITCYLPSVSAR 240
DB     181  FOLEFPMPLGIILFCSFKIVSLRRRQQLARQARMKKATREIMVVAIVFITCYLPSVSAR 240

QY     241  LYFLWTVPSACDPSVHGALHITLSFTYNSMLDPLVYVYFSSPFPKFNKLIKICSLKPK 300
DB     241  LYFLWTVPSACDPSVHGALHITLSFTYNSMLDPLVYVYFSSPFPKFNKLIKICSLKPK 300

QY     301  QPGHKTQRPPEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346
DB     301  QPGHKTQRPPEMPISNLGRRSCISVANSFQSQSDGQWDPHIVEWH 346
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Search completed: August 30, 2005, 18:38:12  
Job time : 164 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 30, 2005, 18:23:45 ; Search time 173 Seconds  
(without alignments)  
1024.158 Million cell updates/sec

Title: US-10-719-692-6

Perfect score: 1853

Sequence: 1 MTNGSCCRIEGTISQVMP...ANFSQSDGQWDPHIVWH 346

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 10%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt\_03.\*

1: uniprot\_sprot.\*

2: uniprot\_trembl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1853	100.0	346	1 GP81_HUMAN	Q9bxc0 homo sapien
2	1841	99.4	346	2 Q6NNU5	Q6nux5 homo sapien
3	1483	80.0	343	1 GP81_MOUSE	Q8ci31 mus musculus
4	1483	47.7	263	2 Q8TDS4	Q8tda4 homo sapien
5	881.5	47.6	387	2 Q8NGE4	Q8nge4 homo sapien
6	880.5	47.5	387	1 G09B_HUMAN	P49019 homo sapien
7	868.5	46.9	360	2 Q9EP66	Q9ep66 mus musculus
8	862.5	46.5	360	2 Q8QZ39	Q8qz39 rattus norv
9	596	32.2	263	2 Q8NGV8	Q8ngv8 homo sapien
10	529	28.5	384	2 Q8NGW4	Q8ngw4 homo sapien
11	529	28.5	384	2 Q8GWP7	Q8gwp7 homo sapien
12	529	28.5	423	2 Q8TDS5	Q8tds5 homo sapien
13	450.5	24.3	319	2 Q9NQ20	Q9ng20 homo sapien
14	448.5	24.2	319	1 GP31_HUMAN	O00270 homo sapien
15	446.5	24.1	319	2 Q9JLS1	Q9jls1 mus musculus
16	375.5	20.3	309	2 Q8R528	Q8r528 mus musculus
17	371.5	20.0	309	1 CLT2_MOUSE	Q920a1 mus musculus
18	366.5	19.8	346	1 CLT2_HUMAN	Q9ns75 homo sapien
19	364	19.6	362	1 P2YR_CHICK	P34996 gallus gall
20	364	19.6	362	1 P2YR_MELGA	P49652 meleagris g
21	362.5	19.6	373	1 P2YR_BOVIN	P48042 bos taurus
22	362	19.5	345	1 CLT2_PIG	Q95n03 sus scrofa
23	358.5	19.3	373	1 P2YR_RAT	P49651 rattus norv
24	356.5	19.2	373	1 P2YR_CAVPO	P59902 cavia porce
25	355.5	19.2	309	1 CLT2_RAT	Q924t9 rattus norv
26	354	19.1	373	1 P2YR_HUMAN	P47900 homo sapien
27	351.5	19.0	373	1 P2YR_MOUSE	P49650 mus musculus
28	351.5	19.0	390	2 Q8QSQ4	Q8qsq4 carassius a
29	350.5	18.9	370	2 Q6NSP5	Q6nsp5 homo sapien
30	348.5	18.8	373	2 Q8BMJ5	Q8bmj5 mus musculus
31	346.5	18.7	370	1 P2Y9_HUMAN	Q99677 homo sapien

32	342.5	18.5	357	2 Q9DE05	Q9de05 raja erinac
33	341	18.4	361	2 Q90X57	Q90x57 xenopus lae
34	340.5	18.4	370	2 Q8BKK1	Q8bkk1 mus musculus
35	340	18.3	344	1 P2Y5_MOUSE	Q8bmc0 mus musculus
36	339	18.3	308	1 P2Y5_CHICK	P32250 gallus gall
37	337	18.2	339	2 Q8NS57	Q8ns57 homo sapien
38	336.5	18.2	370	2 Q8BLG2	Q8blg2 mus musculus
39	336	18.1	367	1 GP17_HUMAN	Q13304 homo sapien
40	336	18.1	390	2 Q8AXM7	Q8axm7 carassius a
41	333.5	18.0	339	2 Q6NS65	Q6ns65 mus musculus
42	330.5	17.8	383	2 Q6NV10	Q6nv10 brachydanio
43	330	17.8	347	2 Q7ZZA4	Q7zza4 brachydanio
44	329.5	17.8	380	2 Q9DG06	Q9dgg6 carassius a
45	327	17.6	309	1 GP35_HUMAN	Q9hc97 homo sapien

Nicotinic

## ALIGNMENTS

RESULT 1 Nicotinic B3

ID GP81\_HUMAN STANDARD; PRT; 346 AA.

AC Q9BXCO;

DT 10-OCT-2003 (Rel. 42, Created)

DT 10-OCT-2003 (Rel. 42, Last sequence update)

DE Probable G protein-coupled receptor (GPR81) (FKSG80 protein)

GN Name=GPR81; Synonyms=FKSG80;

OS Homo sapiens (Human)

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

NCBI\_TaxID=9606;

RP SEQUENCE FROM N.A., AND TISSUE SPECIFICITY.

RX MEDLINE=21458557; PubMed=11574155; DOI=10.1016/S0378-1119(01)00651-5;

RA Lee D.K., Nguyen T., Lynch K.R., Cheng R., Vanti W.B., Arkhiko O.,

RA Lewis T., Evans J.F., George S.R., O'Dowd B.F.;

RT "Discovery and mapping of ten novel G protein-coupled receptor

genes";

RL Gene 275:83-91 (2001).

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=22040266; PubMed=12044878; DOI=10.1016/S0014-5793(02)02775-8;

RA Takeda S., Kadowaki S., Haga T., Takasu H., Mitaku S.;

RT "Identification of G protein-coupled receptor genes from the human

genome sequence";

RL FEBS Lett. 520:97-101 (2002).

RN [3]

RP SEQUENCE FROM N.A.

RA Wang Y.-G., Gong L.;

RT "Molecular cloning of FKSG80, a novel gene encoding a putative

chemokine receptor";

RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.

RN [4]

RP SEQUENCE FROM N.A.

RA Suwa M., Sato T., Okouchi I., Arita M., Futami K., Matsumoto S.,

RA Tsutsumi S., Aburatani H., Asai K., Akiyama Y.;

RT "Genome-wide discovery and analysis of human seven transmembrane helix

receptor genes";

RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.

RN [5]

CC -!- FUNCTION: Orphan receptor.

CC -!- SUBCELLULAR LOCATION: Integral membrane protein.

CC -!- TISSUE SPECIFICITY: Expressed in pituitary tissue. Not detected in

frontal, temporal and occipital lobes of the cortex, basal

forebrain, caudate nucleus, nucleus accumbens, and hippocampus.

CC -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.

CC -----

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AXOR 87

TGA 183

HCPRBHY2D

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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; AF411110; AAL26481.1; -
DR EMBL; AB083631; BAB89344.1; -
DR EMBL; AF345568; AAK29071.1; -
DR EMBL; AB065866; BAC06084.1; -
DR GenBank; HGNC:4532; GPR81.
DR MIM; 606923; -
DR InterPro; IPR000276; GPCR_Rhodopsn.
DR Pfam; PF00001; 7tm_1; 1.
DR PRINTS; PRO0237; GPCRHHODOPS.
DR PROSITE; PS00237; G-PROTEIN RECP_F1_1; 1.
DR PROSITE; PS0262; G-PROTEIN RECP_F1_2; 1.
KW G-protein coupled receptor; Glycoprotein; Transmembrane.
FT DOMAIN 1 21 Extracellular (Potential).
FT TRANSMEM 22 42 1 (Potential).
FT DOMAIN 43 49 Cytoplasmic (Potential).
FT TRANSMEM 50 70 2 (Potential).
FT DOMAIN 71 89 Extracellular (Potential).
FT TRANSMEM 90 110 3 (Potential).
FT DOMAIN 111 130 Cytoplasmic (Potential).
FT TRANSMEM 131 151 4 (Potential).
FT DOMAIN 152 182 Extracellular (Potential).
FT TRANSMEM 183 203 5 (Potential).
FT DOMAIN 204 220 Cytoplasmic (Potential).
FT TRANSMEM 221 241 6 (Potential).
FT DOMAIN 242 261 Extracellular (Potential).
FT TRANSMEM 262 281 7 (Potential).
FT DOMAIN 282 346 Cytoplasmic (Potential).
FT DISULFID 88 165 By similarity.
FT CARBOHYD 3 3 N-linked (GlcNAc...) (Potential).
SQ SEQUENCE 346 AA; 39295 MW; E0DB114EEB3A47A5 CRC64;

Query Match 100.0%; Score 1853; DB 1; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.8e-122;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHKMTKPKSTVYLFNLAVA 60
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHKMTKPKSTVYLFNLAVA 60

QY 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120
DB 61 DFLLMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120

QY 121 HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
DB 121 HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180

QY 181 FOLEFFMPLGIILFCSPKIVNSLRRLRRQQLARQARMKKATRFIMVVAIVFIITCYLPSVSAR 240
DB 181 FOLEFFMPLGIILFCSPKIVNSLRRLRRQQLARQARMKKATRFIMVVAIVFIITCYLPSVSAR 240

QY 241 LYFLMTVPSSACDPSVHGALHTLTFTYVNSMLDPLVYFSSPSPKFNKLIKICSLKPK 300
DB 241 LYFLMTVPSSACDPSVHGALHTLTFTYVNSMLDPLVYFSSPSPKFNKLIKICSLKPK 300

QY 301 QPGHKTQRPPEMPISNLGRRCISVANSFQSQSDQWDPHIVEWH 346
DB 301 QPGHKTQRPPEMPISNLGRRCISVANSFQSQSDQWDPHIVEWH 346

RESULT 2
Q6NXU5 PRELIMINARY; PRT; 346 AA.
AC Q6NXU5;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE G protein-coupled receptor 81.
GN Name=GPR81;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
```

GP81\_MOUSE STANDARD; PRT; 343 AA.

AC Q8C131;

DT 10-OCT-2003 (Rel. 42, Last Created)

DT 10-OCT-2003 (Rel. 42, Last sequence update)

DT 25-OCT-2004 (Rel. 45, Last annotation update)

DE Probable G protein-coupled receptor GPR81.

GN Name=Gpr81;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI\_TaxID=10090;

RN [1]

RN SEQUENCE FROM N.A.

RP STRAIN=C57BL/6J; TISSUE=Skin;

RX MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature011266;

RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,

RA Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,

RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojohori T.,

RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,

RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,

RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,

RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,

RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,

RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,

RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,

RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,

RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,

RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,

RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,

RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,

RA Sandelin A., Schneider C., Sempile C.A., Setou M., Shimada K.,

RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,

RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,

RA Wilming L.G., Wymshaw-Boris A., Yanagisawa M., Yang I., Yang L.,

RA Yuan Z., Zavalan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,

RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,

RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,

RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,

RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,

RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,

RA Birney E., Hayashizaki Y.;

RT "Analysis of the mouse transcriptome based on functional annotation of

RT 60,770 full-length cDNAs.;"

RL Nature 420:563-573(2002).

CC -!- FUNCTION: Orphan receptor.

CC -!- SUBCELLULAR LOCATION: Integral membrane protein.

CC -!- SIMILARITY: Belongs to the G-protein coupled receptor 1 family.

CC -----

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CC -----

DR EMBL; AK029064; BAC26273.1; -;

DR MGD; MGI:2441671; Gpr81.

DR InterPro; IPR000276; GPCR Rhodopsin.

DR InterPro; IPR002286; P2\_purinoceptor.

DR Pfam; PF00001; 7tm\_1; 1.

DR PRINTS; PR00237; GPCRHHODOPSN.

DR PROSITE; PS00237; G PROTEIN RECEPTOR FL1; 1.

DR PROSITE; PS00262; G PROTEIN RECEPTOR FL2; 1.

KW G-protein coupled receptor; Glycoprotein; Transmembrane.

FT DOMAIN 1 21 Extracellular (Potential).

FT TRANSMEM 22 42 1 (Potential).

FT DOMAIN 43 49 Cytoplasmic (Potential).

FT TRANSMEM 50 70 2 (Potential).

FT DOMAIN 71 90 Extracellular (Potential).

FT TRANSMEM 91 111 3 (Potential).

FT DOMAIN 112 131 Cytoplasmic (Potential).

FT TRANSMEM 132 152 4 (Potential).

FT DOMAIN 153 182 Extracellular (Potential).

FT TRANSMEM 183 203 5 (Potential).

FT DOMAIN 204 220 Cytoplasmic (Potential).

FT TRANSMEM 221 241 6 (Potential).

FT DOMAIN 242 259 Extracellular (Potential).

FT TRANSMEM 260 280 7 (Potential).

FT DOMAIN 281 343 Cytoplasmic (Potential).

FT DISULFID 88 165 By similarity.

FT CARBOHYD 3 3 N-linked (GlcNAc...) (Potential).

SQ SEQUENCE 343 AA; 38927 MW; 917FA9499B2E03FD CRC64;

Query Match 80.0%; Score 1483; DB 1; Length 343;

Best Local Similarity 81.4%; Pred. No. 1.8e-96;

Matches 276; Conservative 19; Mismatches 44; Indels 0; Gaps 0;

QY 1 MYNGSCCRIGEDTISQVMPPLILVAFVIGALNGVALCGFCFHMKTWKPSTVYLENLAVA 60

DB 1 MDNGSCCLIEGEPISQVMPPLILVAFVIGALNGIALCGFCFHMKTWKSSTIYLENLAVA 60

QY 61 DFLLMICLPFRDYLYRRRHAFGIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120

DB 61 DFLLMICLPFRDYLYRRRHAFGIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHP 120

QY 121 HHAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVOETAVSCSFIMESANGHMDIM 180

DB 121 HHMVNAISNRNTAAATACVLTWLTIVLGTVYLLMESHLCVQGTLSSESFIMESANGHMDIM 180

QY 181 FOLEFMPILGILFCSFKIVMSLRROQLARQARKKATRFIMVAVIETCYLPSVSAR 240

DB 181 FOLEFMPILGILFCSFKIVMSLRROQLARQARKKATRFIMVAVIETCYLPSVSAR 240

QY 241 LYFLMTVPSSACDPVSHGALHTITLFTVYNSMLDPLVYFYFSSPPKFKVNLKICSLKPK 300

DB 241 LYFLMTVPSSACDPVSHGALHTITLFTVYNSMLDPLVYFYFSSPPKFKVNLKICSLKPK 300

QY 301 QPGHSKTQRPPEMPISINLGRSCISVANSFQSDGQWD 339

DB 301 QPGHSKTQRPPEMPISINLGRSCISVANSFQSDGQWD 339

RESULT 4

ID Q8TDS4 PRELIMINARY; PRT; 363 AA.

AC Q8TDS4;

DT 01-JUN-2002 (TRENBLrel. 21, Created)

DT 01-JUN-2002 (TRENBLrel. 21, Last sequence update)

DT 05-JUL-2004 (TRENBLrel. 27, Last annotation update)

DE G protein-coupled receptor HM74a (Seven transmembrane helix

DE receptor).

GN Name=GPCR;

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI\_TaxID=9606;

RN [1]

RN SEQUENCE FROM N.A.

RP Takeda S., Kadowaki S., Haga T., Takaesu H., Mitaku S.;

RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.

RN [2]

RN SEQUENCE FROM N.A.

RX MEDLINE=22513958; PubMed=12522134; DOI=10.1074/jbc.M210695200;

RA Wise A., Foord S.M., Fraser S.M., Barnes A.A., Elshourbagy N.,

RA Bilezik J.P., Ignar D.M., Murdock P.R., Stepniak K., Green A.,

RA Brown A.J., Dowell S.J., Szekeres P.G., Hassall D.G., Marshall F.H.,

RA Wilson S., Pike N.B.;

RT "Molecular identification of high and low affinity receptors for

RT nicotinic acid.;"

RL J. Biol. Chem. 278:9869-9874(2003).

RN [3]

RN SEQUENCE FROM N.A.

RP Elshourbagy N.A.;

RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.



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DR EMBL; D10923; BAA01721.1; -.  
DR PIR; I69202; I69202.  
DR HSSP; P34996; IDDD.  
DR Genew; HGNC:16824; GPR109B.  
DR MIM; 606039; -.  
DR GO; GO:0005887; C:integral to plasma membrane; TAS.  
DR GO; GO:0004930; F:G-protein coupled receptor activity; TAS.  
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin..; TAS.  
DR InterPro; IPR002286; GPCR\_Rhodopsin.  
DR InterPro; IPR002286; GPCR\_Rhodopsin.  
DR Pfam; PF00001; 7tm\_1; 1.  
DR PRINTS; PR00237; GPCR\_Rhodopsin.  
DR PROSITE; PS00237; G-PROTEIN RECEPTOR\_F1\_1; 1.  
DR PROSITE; PS00237; G-PROTEIN RECEPTOR\_F1\_2; 1.  
DR PROSITE; PS00262; G-PROTEIN RECEPTOR\_F1\_2; 1.  
KW G-protein coupled receptor; Transmembrane.  
FT DOMAIN 1 28 Extracellular (Potential).  
FT TRANSMEM 29 50 1 (Potential).  
FT DOMAIN 51 63 Cytoplasmic (Potential).  
FT TRANSMEM 64 85 2 (Potential).  
FT DOMAIN 86 102 Extracellular (Potential).  
FT TRANSMEM 103 123 3 (Potential).  
FT DOMAIN 124 142 Cytoplasmic (Potential).  
FT TRANSMEM 143 163 4 (Potential).  
FT DOMAIN 164 194 Extracellular (Potential).  
FT TRANSMEM 195 209 5 (Potential).  
FT DOMAIN 210 236 Cytoplasmic (Potential).  
FT TRANSMEM 237 256 6 (Potential).  
FT DOMAIN 257 273 Extracellular (Potential).  
FT TRANSMEM 274 298 7 (Potential).  
FT DOMAIN 299 387 Cytoplasmic (Potential).  
FT DISULFID 100 177 By similarity.  
SQ SEQUENCE 387 AA; 44481 MW; C244F562C2343647 CRC64;

Query Match 47.5%; Score 880.5; DB 1; Length 387;  
Best Local Similarity 52.2%; Pred. No. 4.2e-54;  
Matches 178; Conservative 49; Mismatches 107; Indels 7; Gaps 4;  
QY 5 SCRIEGDTISQVMPPLIVAFVLGALNGVALCGFCFHMKTWKSTVYLFNLAVDFLL 64  
DB 17 NCCVFRDDEIAKVPVLGLFVGLGLGLGLALWIFCFHLKSWKSSRIFLFNLADELL 76  
QY 65 MCLPRTDYLLRRHWAFGDI PCRVGLFTLANRAGSIVFLTVVAADRYFKVHPHVA 124  
DB 77 IICLPFVMDYVRRSDMNEGDI PCRVGLFTLANRAGSIVFLTVVAADRYFKVHPHVA 136  
QY 125 NTISTRVAGIVCTLWALVILGTVLLLENHLCVQETAVSCSFIMESANGHWDIMFQLE 184  
DB 137 NKISNNTAIIICLLMGITVGLTVHLLKKLLIQNGPANVCISFICHTFRWHEAMFLE 196  
QY 185 FFMPLGIILFCSPKIVWSLRRLQRLAKRMKATRFIMVAIVFTTCYLPVSARLYEL 244  
DB 197 FLPLGLIILFCSPKIVWSLRRLQRLAKRMKATRFIMVAIVFTTCYLPVSARLYEL 255  
QY 245 WTPVSSA---CD--PSVHGALHITLSFTYMNMLDPLVYFSSPPKFNKLKICS 299  
DB 256 WLLHTSGTQNCVYRSDLAFFITLSFTYMNMLDPLVYFSSPPKFNKLKICS 315  
QY 300 KQPGHKTQRPPEMPISNIGRRSCISVANFSQSGQWDP 340  
DB 316 KMTGEPDNNRSTSVELTGDPNKT-RGAPEALMANSGEPWSP 355

RESULT 7  
Q9EP66 ID Q9EP66 PRELIMINARY; PRT; 360 AA.  
AC Q9EP66  
DT 01-MAR-2001 (TRENBLrel. 16, Created)

DT 01-MAR-2001 (TRENBLrel. 16, Last sequence update)  
DT 05-JUL-2004 (TRENBLrel. 27, Last annotation update)  
DE Putative seven transmembrane spanning receptor.  
GN Name=Gpr109b; Synonyms=Puma-g, Puma; Mus musculus (Mouse); OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. NCBI\_TaxID=10090; RN [1] SEQUENCE FROM N.A.  
RC STRAIN=129/Svj, and C57BL/6;  
RA Schaub A., Futterer A., Pfeiffer K.;  
RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.  
CC -!- SURCELLULAR LOCATION: Integral membrane protein (By similarity).  
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.  
DR EMBL; AJ300199; CAC17791.1; -.  
DR EMBL; AJ300198; CAC17790.1; -.  
DR MGD; MGI:193383; Gpr109b.  
DR GO; GO:0016021; C:integral to membrane; IDA.  
DR GO; GO:0005525; F:GTP binding; IDA.  
DR GO; GO:0001614; F:purinergic nucleotide receptor activity; IDA.  
DR InterPro; IPR002276; GPCR\_Rhodopsin.  
DR Pfam; PF00001; 7tm\_1; 1.  
DR PRINTS; PR00237; GPCR\_Rhodopsin.  
DR PROSITE; PS00237; G-PROTEIN RECEPTOR\_F1\_1; 1.  
DR PROSITE; PS00262; G-PROTEIN RECEPTOR\_F1\_2; 1.  
KW G-protein coupled receptor; Receptor; Transmembrane.  
SQ SEQUENCE 360 AA; 41400 MW; CCES2A2475777FC CRC64;  
Query Match 46.9%; Score 868.5; DB 2; Length 360;  
Best Local Similarity 55.6%; Pred. No. 2.8e-53;  
Matches 178; Conservative 39; Mismatches 96; Indels 7; Gaps 4;  
QY 3 NG-SCRIEGDTISQVMPPLIVAFVLGALNGVALCGFCFHMKTWKSTVYLFNLAVAD 61  
DB 11 NGKNCVCPDENIAKVPVLGLFVGLGLGLALWIFCFHLKSWKSSRIFLFNLADELL 70  
QY 62 FLMLCLPRTDYLLRRHWAFGDI PCRVGLFTLANRAGSIVFLTVVAADRYFKVHPH 121  
DB 71 FLMLCLPRTDYLLRRHWAFGDI PCRVGLFTLANRAGSIVFLTVVAADRYFKVHPH 130  
QY 122 HAVNTISTRVAGIVCTLWALVILGTVLLLENHLCVQETAVSCSFIMESANGHWDIMF 181  
DB 131 HPLNKISNRTAIIICLLMGITVGLTVHLLYNNMTKNGEAYLCSFSICYNFRWHDAMF 190  
QY 182 QLEFFMPLGIILFCSPKIVWSLRRLQRLAKRMKATRFIMVAIVFTTCYLPVSARLYEL 241  
DB 191 LLEFPLGLIILFCSPKIVWSLRRLQRLAKRMKATRFIMVAIVFTTCYLPVSARLYEL 249  
QY 242 YPLMTVPS---SACD--PSVHGALHITLSFTYMNMLDPLVYFSSPPKFNKLKICS 296  
DB 250 RIFWLLYKYNVNCNDIYSSVDLAFFITLSFTYMNMLDPLVYFSSPPKFNKLKICS 309  
QY 297 LKPGHKTQRPPEMPIS 316  
DB 310 LRKKTGLGPDNNRSTSVELT 329  
RESULT 8  
Q80Z39 ID Q80Z39 PRELIMINARY; PRT; 360 AA.  
AC Q80Z39  
DT 01-JUN-2003 (TRENBLrel. 24, Created)  
DT 01-JUN-2003 (TRENBLrel. 24, Last sequence update)  
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)  
DE Nicotinic acid receptor.  
GN Name=HM74b;  
OS Rattus norvegicus (Rat).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus. NCBI\_TaxID=10116; RN [1] SEQUENCE FROM N.A.





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QY 64 LMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHPHHA 123
Db 102 LISNPLRVDYLLHETWRFGAACKVNLFMSTRTASVFLTAIALNRYLKVQPHHV 161
QY 124 VNTISTRVAGIVCTLWALVILGTVYLLLENHLCVQE--TAVSCSFIM----ESANGWHD 178
Db 162 LSRASVGAARVAGGLWVGI-----LLNGHLLSTTFSPGSCLSRVGTKPSASLRWHQ 215
QY 179 IMFQLEFFMPLGIILFCSEFKIVMSLRROQLARQARMKATRFIMVVAIVFITCLPSV- 237
Db 216 ALYLLEFFPLALILFAIVSIGLTIRNR-GLGQAGPQARMVLAAMVAVYTCFLPSII 274
QY 238 --SARLYFLWTVPSSA---CDPSVHGALHITLSFTYMSMLDPLVYFSSPSF 285
Db 275 FGMASVAFWLSACRSLDLCTQLFHHG----SLAFTYLSVLDPLVLYCFSSPNF 323

RESULT 11
Q86WP7 PRELIMINARY; PRT; 384 AA.
AC Q86WP7;
DT 01-JUN-2003 (TRENBLrel. 24, Created)
DT 01-JUN-2003 (TRENBLrel. 24, Last sequence update)
DE Putative 5-oxo-ETE G-protein coupled receptor.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22495202; PubMed=12606753;
RA Jones C.E., Holden S., Tenailon L., Bhatia U., Seuwen K., Tranter P.,
RA Turner J., Kettle R., Bouhelal R., Charlton S., Nirmala N., Jarai G.,
RA Finan P.;
RT "Expression and characterization of a 5-oxo-6E,8Z,11Z,14Z-
RT eicosatetraenoic acid receptor highly expressed on human eosinophils
RT and neutrophils."
RL Mol. Pharmacol. 63:471-477(2003).
CC -!- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
DR EMBL; AY158687; BA017739.1; -.
DR GO; GO:0050648; P:5(S)-hydroxyperoxy-6E,8Z,11Z,14Z-icosatetra. . .; ISS.
DR GO; GO:0050647; P:5-hydroxy-6E,8Z,11Z,14Z-icosatetraenoic aci. . .; ISS.
DR GO; GO:0050646; P:5-oxo-6E,8Z,11Z,14Z-icosatetraenoic acid bi. . .; ISS.
DR GO; GO:0004930; P:G-protein coupled receptor activity; ISS.
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; ISS.
DR GO; GO:0030817; P:regulation of cAMP biosynthesis; ISS.
DR InterPro; IPR000276; GPCR_Rhodpsn.
DR Pfam; PF00001; 7tm1; 1.
DR PRINTS; PR00237; GPCRHHODPSN.
DR PROSITE; PS00237; G PROTEIN RECF1_1; 1.
DR PROSITE; PS0262; G PROTEIN RECF1_2; 1.
KW G-protein coupled receptor; Receptor; Transmembrane.
SQ SEQUENCE 384 AA; 41412 MW; 0C5E35FED8085F36 CRC64;

Query Match 28.5%; Score 529; DB 2; Length 384;
Best Local Similarity 39.2%; Pred. No. 2.1e-29;
Matches 115; Conservative 48; Mismatches 108; Indels 22; Gaps 7;

QY 4 GSCCRIEGTISQVMPPLIVAFVLGALNGVALCGFCFMKTKPSTVYLFNLAVADFL 63
Db 42 GPCHPTSSSLVSFAFLAPLALFEVLGLVNGSLALPTFICHTRPWTSNTVFLVSLVAADFL 101
QY 64 LMICLPFRDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVVAADRYFKVHPHHA 123
Db 102 LISNPLRVDYLLHETWRFGAACKVNLFMSTRTASVFLTAIALNRYLKVQPHHV 161
QY 124 VNTISTRVAGIVCTLWALVILGTVYLLLENHLCVQE--TAVSCSFIM----ESANGWHD 178
Db 162 LSRASVGAARVAGGLWVGI-----LLNGHLLSTTFSPGSCLSRVGTKPSASLRWHQ 215
QY 179 IMFQLEFFMPLGIILFCSEFKIVMSLRROQLARQARMKATRFIMVVAIVFITCLPSV- 237
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Db 216 ALYLLEFFPLALILFAIVSIGLTIRNR-GLGQAGPQARMVLAAMVAVYTCFLPSII 274
QY 238 --SARLYFLWTVPSSA---CDPSVHGALHITLSFTYMSMLDPLVYFSSPSF 285
Db 275 FGMASVAFWLSACRSLDLCTQLFHHG----SLAFTYLSVLDPLVLYCFSSPNF 323

RESULT 12
Q8TDS5 PRELIMINARY; PRT; 423 AA.
AC Q8TDS5;
DT 01-JUN-2002 (TRENBLrel. 21, Created)
DT 01-JUN-2002 (TRENBLrel. 21, Last sequence update)
DT 25-OCT-2004 (TRENBLrel. 28, Last annotation update)
DE G-protein coupled receptor TGI019.
GN Name=GPCR; Synonyms=OXER1, tgi019;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22191290; PubMed=12065583; DOI=10.1074/jbc.M203194200;
RA Hosoi T., Koguchi Y., Sugikawa E., Chikada A., Ogawa K., Tsuda N.,
RA Suto N., Tsunoda S., Taniguchi T., Ohnuki T.;
RT "Identification of a Novel Human Eicosanoid Receptor Coupled to
RT Gi/o."
RL J. Biol. Chem. 277:31459-31465(2002).
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M.J., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smalish D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [4]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RA Strausberg R.;
RL Submitted (DEC-2003) to the EMBL/GenBank/DBJ databases.
CC -!- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
DR EMBL; AB083630; BAB89343.1; -.
DR EMBL; AB083055; BAC11806.2; -.
DR EMBL; BC063549; AAH63549.1; -.
DR GO; GO:0050648; P:5(S)-hydroxyperoxy-6E,8Z,11Z,14Z-icosatetra. . .; NAS.
DR GO; GO:0050647; P:5-hydroxy-6E,8Z,11Z,14Z-icosatetraenoic aci. . .; NAS.
DR GO; GO:0050646; P:5-oxo-6E,8Z,11Z,14Z-icosatetraenoic acid bi. . .; NAS.
DR GO; GO:0004930; P:G-protein coupled receptor activity; NAS.
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; NAS.
DR GO; GO:0030817; P:regulation of cAMP biosynthesis; IDA.
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FT DOMAIN 241 265 Extracellular (Potential).  
FT TRANSMEM 266 284 7 (Potential).  
FT DOMAIN 285 319 Cytoplasmic (Potential).  
FT CARBOHYD 5 N-linked (GlcNAc..). (Potential).  
SQ SEQUENCE 319 AA; 35079 MW; 7A4F164CD9C969DD CRC64;  
Query Match 24.2%; Score 448.5; DB 1; Length 319;  
Best Local Similarity 34.0%; Pred. No. 8.1e-24;  
Matches 100; Conservative 62; Mismatches 121; Indels 11; Gaps 5;  
QY 7 CRIEGDTISQVMPPLIIVAFVILGALNGVALCGFCFHMKTWKPSTVYLFNLAADVADPLMI 66  
Db 6 CSAPSTVATAVGVLGLEGGLGNAVALTFLEVRVWKPYPAYVLLNLALADLLAA 65  
QY 67 CLPFRDYLRHRAWAFGDI PCRVGLFTLNMNRRSIVFLTVVADRYFKVVPHPHAYNT 126  
Db 66 CLPFLAAFYLSQAWHLRGVGCWALRFLDLRSVGMFLAVALDRLYRVVHPRLKVN 125  
QY 127 ISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANG-----WHDIMF 181  
Db 126 LSPQALGVSGVLWLLMVALTCPLLISE--AAQNSTRCHSP-YSRADGSPSIWQEALS 182  
QY 182 QLEFFMPLGIILFCFSFKIVMSLRRR--QOLARQARKKATRFIMVVAIVFITCYLPSVSAR 240  
Db 183 CLQFVLFPGLIVFCNAGITRAQKREPEKPKQRAQALVILVVVLPALCFPCFLAR 242  
QY 241 --LYFLMTVPSSACDPSVHGALHITLSFTYNNMMLDPLVYFSSPSPFPKFNKL 292  
Db 243 VLMHIFQNLGSCRALCAVAHSDVTGSLTYLHVVNPVYCFSSPTFRSSYRRV 296  
RESULT 15  
QJLS1 PRELIMINARY; PRT; 319 AA.  
AC QJLS1;  
DT 01-OCT-2000 (Tremblrel. 15, Created)  
DT 01-OCT-2000 (Tremblrel. 15, Last sequence update)  
DT 01-MAR-2004 (Tremblrel. 26, Last annotation update)  
DE G protein coupled receptor.  
GN Name=Tcp10c;  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=99431663; PubMed=10501965;  
RA Schimenti J.C.;  
RT "ORFless, intronless, and mutant transcription units in the mouse t  
RL complex responder (Tcr) locus.";  
RL Mamm. Genome 10:969-976(1999).  
DR EMBL; AF140708; AAF26668.1; -.  
DR MGD; MGI:98543; Tcp10c.  
DR GO; GO:0016021; C:integral to membrane; IEA.  
DR GO; GO:0004872; F:receptor activity; IEA.  
DR GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.  
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin...; IEA.  
DR InterPro; IPR000276; GPCR\_Rhodpsn.  
DR Pfam; PF00001; 7tm 1; 1.  
DR PRINTS; PR00237; GPCR\_Rhodopsn.  
DR PROSITE; PS00237; G PROTEIN RECEPTOR FL1; UNKNOWN\_1.  
DR PROSITE; PS50262; G\_PROTEIN\_RECEP\_F1\_2; 1.  
KW Receptor.  
SQ SEQUENCE 319 AA; 35551 MW; 571F6DFB485BD7C4 CRC64;

Query Match 24.1%; Score 446.5; DB 2; Length 319;  
Best Local Similarity 32.5%; Pred. No. 1.1e-23;  
Matches 104; Conservative 64; Mismatches 133; Indels 19; Gaps 7;  
QY 7 CRIEGDTISQVMPPLIIVAFVILGALNGVALCGFCFHMKTWKPSTVYLFNLAADVADPLMI 66  
Db 6 CSAASTVETAVGTMLTLCVLGMGNVALMTFFYRLKVKWKPYPAYVLENLVADILLAT 65

QY 67 CLPFRDYLRHRAWAFGDI PCRVGLFTLNMNRRSIVFLTVVADRYFKVVPHPHAYNT 126  
Db 66 SVPPFAAFYLGKTKWLGMPQCLLLFLAFSCGVGVAFLMTVALDRLYLVVHPRLRVNL 125  
QY 127 ISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIMF 181  
Db 126 LSLRAANGISSLIWLLMVVLTPOQLL---TCRTTQNSTECSPFYPTGCTKAIATCOEVL 182  
QY 182 QLEFFMPLGIILFCFSFKIVMSLRRR--QOLARQARKKATRFIMVVAIVFITCYLPSVSAR 240  
Db 183 FLQVLLPGLISFCNGLIRTQLKLSLSDKQPTIRRARVLVAIMLLFLGLCFPLSVL 242  
QY 241 --LYFLMTVPSSACDPSVHGALHITLSFTYNNMMLDPLVYFSSPSPFPKFNKLKICSLK 298  
Db 243 VLMHIFQBFKSCVQQAAMRASDIAGSLTCLHSTLSPAIYCFSPNPAFTHSYRKV-LKSLR 301  
QY 299 PKQPGHKTQRPPEEMPISNL 318  
Db 302 GR-----RKAESPNDL 314  
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